

Sierra Valley, California.  
Nov. 11<sup>th</sup> 1873.

Prof. Asa Gray,  
Harvard University, }

Dear Sir,

A recent letter from Prof Bolander of San Francisco states that you report having named a flower after me - the "Astragalus Lemmonii," of Sierra val. Cal.

Thanking you very heartily for the high honor you so kindly confer upon me, I shall attempt to show my appreciation by redoubling my efforts in the prosecution of what my generous friend Bolander terms "our amiable science," That I may

be sure of the species bearing  
my patronymic, will you please  
send me <sup>a</sup> spray of the plant?

I have traveled through cen-  
tral California this summer and  
collected a large number of  
plants which as fast as I can  
arrange I am sending to Prof  
Bolander to determine. Perhaps  
some are rare for I visited  
many almost inaccessible points.

I enclose a few small ones.

I understand that you have  
kindly consented to work up our  
Botany for us this winter.

If my name occurs please no-  
tice the peculiar spelling.

I am, my dear sir

Very respectfully

Yours &c,

J. L. Lemmon.



Sierra Valley, Sierra Co, California  
Dec. 18<sup>th</sup> 1873,

Dr. Asa Gray,  
Cambridge, Mass., }

Dear Sir,

Yours

letter and pamphlet came duly to hand. Many thanks for the honorable terms in which you allude to the naming of the *Tragalus*. I shall try to deserve them.

I am now in the midst of flowers - though surrounded with snow over two feet deep; that is, my dried plants collected this season are lying around me in the pews of a Church where I am dogmatizing, while the wintry storms howl without.

Do not yet find that *Asotragalus*  
in my collection, but remember it  
well. Thank you for the invi-  
tation to forward plants & you  
direct. Will send a small pack-  
age soon, but will send the  
most to Bolander as he can de-  
termine and <sup>then</sup> forward <sup>only</sup> those interesting.

I'm pleased to notice that  
Mr Minor of Go-Semite is honored  
also as a discoverer. Send him  
with Dr. Kellogg & Mrs Carr up in  
cloud-land back of Go-Semite,

Promising you a few plants soon  
and a large collection next summer  
if you desire, I remain

Very respectfully

Yours &c,

J. S. Gammon.

P.S. The sad news of the death of Prof. Agassiz  
has just reached me.

Mr. & Mrs. J. Ames. lives there,

Next north, <sup>12 miles</sup> and well up in the clouds  
are the Big Meadows, noted for their  
enormous springs. From several the  
stream is sufficient to carry the largest  
aspen. Over looking <sup>on the north</sup> this large valley  
is the perpetually snow capped peak of  
Hapen.

Farther than this peak I have not pen-  
etrated except with the eye from the summit  
of Hapen. The extreme length of this  
chain, from Tahoe to Hapen as the bird  
flies, is about 200 miles. From  
any of the peaks between, you command a  
view of both the Great Basin and its al-  
kali deserts and the Sacramento val, with its  
fruitful valleys.

All of these valleys north of and including  
Sierra, val, are drained by streams that  
break through the high Sierras,

In winter we have from a few inches to  
several feet of snow. Traveling then is much  
assisted by the Norway snow shoe.

These localities are all connected by <sup>weekly</sup> stages  
and mails, also to the towns on each side.  
The flora is generally dwarfed but often beautiful  
and otherwise interesting.

Next season I intend to pass by Hapen's  
Peak to Shasta and Oregon.  
(See next sheet for List of Plants.)

Sierra Val. Sierra Co. Cal.  
Christmas, 1875.

Dr. & Mrs. Gray,  
Cambridge, Mass.

Dear Sir.

Nothing  
in the institutions of this far off,  
half civilized portion of our wide  
country forbids my devoting this  
day to you and the flowers.

I have made up a <sup>small</sup> ~~small~~ package of  
specimens, reserving duplicates of the same,  
which I wish one of your assistants (as  
yours kind is too valuable,) to determine  
for me. The Genera is often known, but not Species.

Perhaps it would aid you in placing  
these flowers if I should give you a  
brief description of the region of country  
over which I have traveled & collected,

Sierra valley is one of a chain of lake & valley. The lake about half high valleys extending along the eastern slope of the highest range of the Sierras, across. Its altitude is 6,420 ft. It belongs geographically in Nevada, but outlet, like the last, leads into the Great Basin. ~~But~~ by an apparent convulsion of nature the lava belted Sierras have opened and let our waters escape into the great val. of the Sacramento. Our altitude is 5,020 ft. The flora is in part the same as the Great Basin, Lemnaceae, Persia &c.

The shape is irregular, but its longest axis is about 35 miles, diameter averages 10, <sup>souls</sup> the town & villages, and about 2,000 in <sup>capable of maintaining 20,000</sup> all the valley. Nearest R.R. the Central Pacific, 20 miles. Occupation principally farming & lumbering. Science is much appreciated yet, no cabinets, herbariums or high schools - much less a resident scientist.

Immediately south of S. V. <sup>8 miles</sup> is Webber Lake & valley about 2,000 feet higher.

South of Webber's about 16 miles is Truckee valley. Threaded by the R.R.

Next south about 15 miles is Tahoe

Coming back to Sierra valley we find on the east a branch of the Great Basin called Long val. from which we are separated by the celebrated low pass, Beckworth's only 130 feet higher than this val.

Coming back again and tracing the chain of valleys northward, we enter first <sup>in about 10 miles</sup> Hoback, a beautiful, <sup>little</sup> <sup>and</sup> <sup>like</sup> grape valley, <sup>16 miles</sup> having a series of thermal springs. Next north <sup>16 miles</sup> is American val, quite fruitful and containing Luning, the capital of Elmore Co. Near it are the small valleys of Butterfly (famous for *Larlingtonia*), and Snake, abounding in rare plants, <sup>12 miles</sup>

Next north <sup>12 miles</sup> is Indian, nearly as large as Sierra. Contains 4 villages and about 1,800 souls. A most excellent lady and careful botanist.

List of Plants sent Christmas  
1883. To Dr. Asa Gray,

- No. 1 & 2. Flower in April, Sierra valley  
 " 3. Rare. Long val. near Sierra. May.  
 " 4. Common Sierra val.  
 " 5 & 6. " " & Webber Lake  
 " 7, 8, 8 " " & Long val.  
 " 9 & 10 & 11 " " "  
 " 12 & 13 rare in Indian val.  
 " 14 Com. Sierra "  
 " 14 1/2 Yo-Semite  
 " 15 " " Springs.  
 " 16 high peaks - Com.  
 " 17 Sierra val., desert places.  
 " 18 & 19 " " Com.  
 " 20 " " rare, on sand dunes,  
 " 21 " " & Indian val.  
 " 22 & 23 " " Com.  
 " 24 lava peaks 8,000 ft. near Sierra val.  
 " 25 & 26 common  
 " 27 rare, Sierra val.  
 " 28-29 rare " " & Indian 8,000<sup>ft</sup> high

- No 30, & 31. Sierra Val. Com.,  
 " 32 " " rare.  
 " 33 & 34 " " Com.  
 " 35 on mountains "  
 " 36 Carson val, "  
 " 37 & 38 Sierra " "  
 " 39 Springs of all our high valleys,  
 3 1/4 Squaw Val. near Lake Tahoe, average size.  
 " 40 Mountain sides  
 " 41 high marshes,  
 " 42 Common to all this region  
 " 44 marshes, Com.  
 " 45 mountain sides, on sand Com.  
 " 46 Webber Lake.  
 " 47, 48, 49, & 50 Com.  
 " 51 Indian val, & Genesee  
 " 52 Sierra " Com.  
 " 53 " " in springs, flowers all summer.  
 " 54 Indian " rare  
 " 55 " " & Calaveras "Big Tree" val.  
 " 56 " " & many others to Go-Devote.  
 " 57 & 58 " " & Mohawk  
 " 59 Sierra Val.  
 " 60 & 61 " " & others, Com.

- No 62, 63, & 64 Sierra Val. Com.,  
 " 65 Go-Devote "  
 " 66 Indian "  
 " 67 Go-Devote & other valleys,  
 " 69, 70, 70 1/2, 71 & 72 Com.  
 " 73, Sierra & other valleys,  
 " 74 Big Meadows around springs  
 " 75 Summit of Silver Mt 11,000 ft high, Alpine Co.  
 " 76 Sierra Val. rare,  
 " 77, Tahoe Lake val, the only specimen I ever saw,  
 Very white & beautiful, grew under a pine tree,  
 " 78, Red clay hills, near Calaveras "Big Trees",  
 " 79, Go-Devote val,

This is all that I can get  
 at just at present, Hope that  
 a few of these may prove interesting.  
 I shall be glad to assist in any way  
 to expedite the publication of the  
 California Botany.

Very respectfully,  
 Yours Yc,

J. L. Lemmon,

"Trip to Aspen's Peak" published last season,

"The Big Spring near Land's old hotel on the S.E. side of the Big Meadows is justly famous for the immense amount of water bursting out from the mountain side and boiling up from the deep basin below. From this congeries of springs (a phenomenon repeated in several places in the valley, a river 15 or 20 yds wide and deep enough to float a large raft, meanders down the grassy valley. While we looked at beautiful vision arose, it was Eden <sup>come</sup> again,

towers of over-hanging alders and a rare Hawthorn shaded masses of rank and rare herbage the whole fringing a deep pellucid basin upon which a pair of magnificent <sup>white pelicans</sup> ~~swans~~ rested - so large and motionless, they seemed a picture of ancient gondolas and I should not have been surprised to have seen a row of lifted oars protruding from their black wings. Their food, the delicious speckled trout, on all sides flashed in the sunlight as they darted after the lazy dragon fly or flitting moth. The rare plants met with including a large white perennial larkspur (the same you, Dr. find is a *Corydalis*) occupied my attention while my comrade the Professor ventured out on a log and soon landed a number of fine trout."

But I fear that this plant will not prove a stranger. It don't fill your requirements, but rather resembles the character of *C. montana* Engelm.

This *Corydalis* of the Big Spring grows in quite a stout, dense mass, from 2 1/2 to 30 inches high, leaves light pea-green, racemes <sup>terminal</sup> defective flowers often wanting as if frosted, of a creamy white color with pale blue center, followed by a green pod, tipped with a dry persistent style. Don't think it ~~disposable~~ to climb.

Sierra Valley, California  
Jan. 30<sup>th</sup> 1884

Dr. Asa Gray,  
Cambridge, Mass.,

My dear Dr,

Your

letter of the 17<sup>th</sup> inst is rec'd.

My pen cannot express the great pleasure imparted by its perusal.

Thanks, thanks my dear Dr. for the honors you again confer upon me, as also for the prompt report of my little package of flowers.

But while I fully appreciate the honors and in this case receive them without a middle man in the case - certainly discovering the flowers myself - yet I wish to make a change in your name if you please. The little *Ivesia*



(No 22,) which you have named for me  
I desire rather that you name for  
Dr. D. G. <sup>of Sierra Valley,</sup> Webber. There are several  
reasons for this change, 1<sup>st</sup> The  
great benevolence and usefulness of the Dr.  
all his life. 2<sup>nd</sup> His liberal patronage  
of Science. 3<sup>rd</sup> His un-  
requited services, and present feeble  
state, and 4<sup>th</sup> the beautiful little  
plant grows near his home in this  
valley. I might add that such  
an honor conferred upon him would  
be more gratifying to him than any  
thing that mortals can do, ~~for~~  
~~this~~.

Perhaps you may remember  
that Dr Bolander recommended Dr Webber  
for honors. At Bolander's request I  
wrote the Dr's history for him last  
year. If you have perceived that  
I know you will not doubt the  
merit of the man, / Hoping your  
decree has not gone forth and that the  
Dr may be honored I will proceed to

describe the *Ivesia Lemmonii* and  
the interesting *Corydalis* as requested.  
The *Ivesia* I have found in but  
two localities in all my rambles. One  
is a certain dry ravine near Dr. Webber's  
residence on the east side of Sierra valley  
and about midway between the villages  
of Loyalton and Summit - about 13  
miles apart.

The other locality is  
Genesee val, a small dell opening into  
Indian val, on the South. Both these  
places are at an altitude of about 5,000 ft.

The plants grow <sup>scattered</sup> in patches like the  
strawberry, the little yellow flowers of a bright  
satin sheen gayly decking the rounded  
heads upreared among the curious leaves.

I will send you live specimens in Spring,  
also some more sprays now if possible.

The *Corydalis* comes from a classic  
and already renowned locality - the Big  
Spring of the Big Meadows (described  
in former letter.) Let me farther de-  
scribe the Spring - copying <sup>with few changes</sup> from my



If I cannot be of more use to you now I will try to in future, with your book to tell <sup>me</sup> what is known. Would you like roots, and seeds of any certain plants or an analysis of soils &c, to assist in determining? We will try for these things in future, if you desire,

I am greatly pleased with your hint that you may put me in the way of making my expenses while gathering.

I was born with a wooden spoon, grew up in poverty, was doomed to hard labor until the fortunes of war threw me into a Southern prison where I rested for half a year, this with teaching school has contributed to ruin my health and kept me from getting rich; so my means are limited but my health demands life in the open air - and as high as possible. I have ascended many peaks of the Sierras nearly every one of eminence between Lassen & Cloud's Rest above Yo. Semite.

And now my dear Dr, I thank you again for your distinguished consideration and will prepare a list of flowers, sending 2 1/2 lbs of plants by same mail, which if any of them prove of any use or interest to you will be very gratifying to me, I am, my dear Dr,  
very respectfully, Yours &c J. S. Sperrinon,

I will ask you for one credit my dear Dr, on the Corydalis, for this reason. Sending specimens to Dr Bolander he reported them as Astragalus. As often as my retained specimen met my eye it would arrest my attention and I could not rest satisfied with its classification.

At last I cut it out of my Herbarium and forwarded it to you, and lo! it is neither a Delphinium nor an Astragalus but a Corydalis.

Should it prove a new species or variety, and if it has no specific character that necessarily names it, I beg you will honor another of my friends -- Prof. E. L. Case of this valley. He is a very good scholar, a pure-minded gentleman, and as modest as he is good. He was with me at the time of its discovery, and has accompanied me in nearly all my ramblings. By the way, this Corydalis is found in other places than the one named,

And now Dr, we will pass to other plants, (Some of my flowers you report as "wanting". I don't know what is meant, No "23." is so marked I send more of it, It is quite abundant here, quite variable in height and otherwise, remarkable for the beauty of its little, purred corollas, So on with the ... do! Is that what is "wanting"?

I send more specimens (found in a forgotten package) of the new *Ivesia*, <sup>(27)</sup> also (P. 52) *Heaferochuron*, That is also quite abundant here, and in fact too <sup>for the farmers good,</sup> much so, The *Marailea*, <sup>(59)</sup> grows in pools of stagnant or slow moving water the singular, quaternate, rounded leaves floating on the top connected by long stems to a creeping root with its fruit all submerged. The *Cheilanthes* (67, 1) comes from near Geapen.

I see that the leading strings all draw me towards Geapen again, as you also request, That field & this is new,

as any of the collectors here ever sent you shrub cinquefoil - *Potentilla fruticosa*? I have never found it but once - then on a peak near Webber Lake, An accident deprived me of every specimen, also I once found a *Parnassia* it was in a patch of *Darlingtonia*, near Indian Val, but I lost it, I had *vernida*, Have you good specimens of the *Darlingtonia* in flower? If not do you wish them?

I send you also some more *Cyclactemids*, I wish to remark that the imbricent one green in the vicinity but on a very different root, Suspecting that it might be new we pulled all of it, but will visit the locality again this season, A frost injured the most of all the plants gathered in the spring of 1873, not so in 1872.

If I can afford to travel at all I mean to be more thorough in future and with larger forces secure better specimens.



time, &c., except, in rare cases, did not get enough specimens to determine every point with certainty.

Then my way of spending the entire season in collecting, not stopping to study them much before taking time to send away, — and leaving all the latter essential business until the leisure, snow-bound days of winter, had the effect to destroy or lose a great majority of my treasures. Had I forwarded as collected, either to Dr. Bolander or yourself, you would ere this, — have had boxes of plants well-filling one of your small rooms.

I now to reform my practice in accordance with the above scheme the coming season. Also I will keep a memorandum of localities and times not trusting altogether to memory as heretofore. B. This means I hope to be of service on

the second edition of "Flora Cal."

I had no thought but that every plant large enough to be seen from a horse, had been reported to you especially, the ferns. They are so beautiful always, and keep their color so well even with careful pressing in a book or old letter, that I thought every species had long since been sent you. So

I am greatly pleased at the prospect that the Cheilanthes sent you prove interesting if not new.

Long ere this I hope you have received a long letter and a package of 234 plants — including, among some of those very common here, those that were interesting or new to you.

My largest, fullest specimens were sent to Bolander during the holidays in sheets as large as Thorpe's Weekly; nearly all rare, and numbering over 400,

- No 139 Sierra val,  
 " 140 Spagnu's Ranch near Yo Semite  
 " 141 Sierra val & Indian  
 " 142 " " "  
 " 143 " " "  
 " 144 " " " & Truckee  
 " 145 " " "  
 " 146 Castle Peak, " & original  
 " 147 Yo-Semite near Bridal veil  
 " 148 " " " Hutchings  
 " 149 " " " "  
 " 150 Lake near Silver Lake?  
 " 151 Sierra val,  
 " 152 near Lake val, very fragrant leaves,  
 " 153 " " & elsewhere,  
 " 154 " Sierra val,  
 " 155 " "  
 " 156 " "  
 " 157 Feather Pt. Tahoe & Hope val,  
 " 158 Summit of Silver Peak, 11050 ft,  
 " 159 Conn. from Leaven to Tahoe,  
 " 160 " " " " Yo Semite  
 " 161 Webber's Lake val,  
 " 162 Foot hills, near Murphy's  
 " 163 Side of Silver Peak  
 " 164 Sierra val - a great nuisance  
 " 165 " " & Webber's  
 " 166 Yo-Semite - under Bridal veil  
 " 167 Crane Flat - near Yo-Sem.  
 " 168 Sierra val, & others  
 " 169 " " "  
 " 170 " " "

3rd Sheet.

First of Plants sent  
 Feb. 1874 to Dr. Gray by  
 J. S. G. Hermann Sierra Valley, Cal.  
 Feb. 5<sup>th</sup> - 1874

First those in my last package  
 of which you write "more wanted."

- No (18) Group in Sierra valley,  
 " (33) " " " abundant  
 " (27) The new Presia - Location described in letter  
 " (52) Hesperochloa x Sierra & Big valleys, meadow  
 " (59) Hesperochloa Sierra valley, sluggish stream,  
 " (67) Chelanthus x, near Leaven  
 " (74) Corydalis, x, Big Spring, Big Meadows,  
 New List - commencing with  
 " 80 Near Tahoe Lake is it Presia myosurimides?  
 " 81 " my home abundant Sierra val,  
 " 82 " "  
 " 83 " "  
 " 84 Sierra & Indian val,  
 " 85 " " is it Louringia elegans? <sup>3rd sheet</sup>  
 " 86 " "  
 " 87 " has curious inverted heads,  
 " 88 " & other valleys  
 " 89 Indian val,

- No. 90 Sierra val, meadows,  
 " 91 " " hills  
 " 92 " " "  
 " 93 " & Hoag val,  
 " 94 " val, abundant, pastures  
 " 95 near Go-Semite  
 " 96 Indian val. Is it Karak?  
 " 97 " " & Sierra  
 " 98 " " "  
 " 99 " " "  
 " 100 Abundant near my home Sierra val  
 " 101 Sierra val.  
 " 102 Sierra val, common,  
 " 103 " & others "  
 " 104 Toll-road between Quincy & Indian val,  
 " 105 Castle Peak 8000, ft high  
 " 106 Near Webber Lake,  
 " 107 Sierra val, & others  
 " 108 " " " very common,  
 " 109 " " " "  
 " 110 " " " leaf "  
 " 111 " " " "  
 " 112 Toll-road between Quincy & Indian val,  
 " 113 " (Is this identical with No. 4. of *Pl. Suckace?*)

- No. 114 Sierra valley, among cliffs.  
 " 115 Near Leaps-in Peak,  
 " 116 Indian val,  
 " 117 " " & Sierra  
 " 118 " " " com.  
 " 119 "*Cycladenia* var. Paiz between Indian val. and Big Meadows  
 " 120 Leaps-in Peak 10,527 ft. Dr. Bolander called both of these by the same.  
 " 121 Silver " 11,060 ft. (name "*Penstemon Newberryi*")  
 " 122 Carson val. Alpine Co. Cal,  
 " 123 Crane Flat near Go-Semite  
 " 124 Near Webber Lake,  
 " 125 " Tahoe "  
 " 126 Carson val along the R. R.,  
 " 127 High Peaks com,  
 " 128 Sierra valley rare  
 " 129 " " com,  
 " 130 " " & Go-Semite  
 " 131 " " & near Leaps-in, very low, pretty  
 " 132 " " "  
 " 133 " " "  
 " 134 Clouds Rest above Go-Semite, 10,500 ft.  
 " 135 Go-Semite near Dutchmans  
 " 136 Sierra valley  
 " 137 Near Tahoe  
 " 138 Common on high mountains



- 1/2 208 Sierra val, near Castle Peak  
 " 209 Sierra val, near Hagerman (29 1/2)  
 " 210 " " North end  
 " 211 " " " "  
 " 212 " " " "  
 " 213 " " " "  
 " 214 " " " "  
 " 215 " " " "  
 " 216 " " " "  
 " 217 " " " "  
 " 218 Sierra val, called by Indians "Santia"  
 " 219 Sand dunes of Sierra val, north end  
 " 220 High peaks from Hagerman to Bonanza  
 " 221 Mcabee's Peak, near Mcabee's Lake  
 " 222 Side of Hagerman, July 22, 1892  
 " 223 Sierra, Mohawk, American & Indian valleys  
 " 224 Climbing to the summit of Castle Peak,  
 (Sierra val, com.)  
 " 225 " " " "  
 " 226 " " " "  
 " 227 " " " "  
 " 228 Mohawk, Indian & " "  
 " 229 Mohawk, Indian & " "  
 " 230 West Peak, near Castle Peak  
 " 231 Sierra val, com.  
 " 232 Warner val, near Hagerman Pk.  
 " 233 Sierra " "  
 " 234 " " com. & others  
 " 235 " " " "  
 " 236 near Lawrenceville Station, (Indian Lake & Bonanza)  
 " 237 Sierra, Mcabee, Indian & Big Meadows,  
 " 238 " " " "  
 " 239 " " near Hagerman, etc.  
 " 240 " " near Mcabee's winter residence  
 " 241 near the tunnels of Castle Peak  
 " 242 Sierra val, " "  
 " 243 " " " "  
 " 244 Summit of Hagerman, July 22, 1892  
 " 245 Sierra val, com.  
 " 246 " " " "  
 " 247 " " near home of J. J. Emerson,  
 " 248 " " & elsewhere, very com.  
 " 249 High, v. com.  
 " 250 Butterfly val, near Quincy,

- 1/2 251 Butterfly val, near Hagerman,  
 " 252 Sierra, Mohawk, Indian val, & others  
 " 253 " " " "  
 " 254 Toll-road bet, American & Indian,  
 " 255 Snake Lake, near "  
 " 256 Sierra val  
 " 257 White rock val, near Hagerman  
 " 258 Sierra & all " "  
 " 259 Warner val, near Hagerman,  
 " 260 Sierra, American & Indian valleys,  
 " 261 " " " "  
 " 262 " " " "  
 " 263 " " " "  
 " 264 " & " "  
 " 265 " " " "  
 " 266 " " " "  
 " 267 Castle Peak, July 22, 1892  
 " 268 Sierra & Indian val,  
 " 269 " " " "  
 " 270 " " " "  
 " 271 Sierra val, " "  
 " 272 " " " "  
 " 273 Pass between Sierra & Mcabee's Lake val,  
 " 274 Indian and Sierra val,  
 " 275 " " " "  
 " 276 High Peaks of " to Bonanza  
 " 277 " " " "  
 " 278 " " " "  
 " 279 " " " "  
 " 280 Sierra val, com.  
 " 281 Cedar trees, com.  
 " 282 Sierra and other high val,  
 " 283 " Indian & Mohawk " "  
 " 284 " " " "  
 " 285 Lava peaks near Sierra val,  
 " 286 " " " "  
 " 287 " " " "  
 " 288 " " " "  
 " 289 " " " "  
 " 290 near Castle Peak, " " rare,  
 " 291 Indian & other val,  
 " 292 Sierra " "  
 " 293 " " " "  
 " 294 Lake & "Lake" val, to Big Meadows,  
 " 295 High " "



Times are so hard here that it is now very doubtful if I can travel this season. Engaged in settling the Estate for an aged widow this winter who comes out so poor that I cannot charge anything for services, and my eventful life has precluded the acquirement of a competence, - as before hinted,

I therefore ask with deep humiliation that your University advance me a small sum to procure an outfit this Spring. I will pledge you the honor of a man that it is needed and that it would be expended only for the advancement of Science. The habits, folk-songs, and Prof. Case are very abstemious, with - of even used intoxicating liquors of any kind - in fact I was lately addressed to a distant town to open the temperance crusade, "because" the Committee said, "that my conduct accorded with my teaching."

For so we use tobacco, or any other expensive luxury. We only wish the poorest fare and "rough it" soldier-like.

I have a note from H. C. Bobb asking for willows, and Davenport, Will. C. Congdon, Woolson et al asking exchange.

I will send you another small package soon.

You need not send numbers prepared as you proposed. I will attach a paper to each hereafter, bearing the number.

Very respectfully, Yours &c, J. S. Semmon.

Prairie Valley, California  
March 22<sup>nd</sup> 1854.

Dr. Asa Gray,  
Cambridge Univ.

Dear Sir,

Your note of the 21<sup>st</sup> ult was read with an overflowing heart. Thanks, again, my dear Dr. for your acceding to my request, and naming the new flowers for my friend's Robert Case.

It gave me such pleasure to assist in bringing such honors upon them that I could not sleep for the night after - nor do business for many days following. And who has a better right to be overborne with trifling than he who tries to do good to or honor his fellow man?

And the recipients of these honors! Well knowing the far-reaching extent of the distinction their gratitude is only excelled by their surprise,

I hope ere this, another of my friends, an excellent lady and careful collector of Indian valley has met with your favor also. I allude to Mrs. Mary E. P. Ames, whom I have induced to send the plants of her section to you. I have no doubt that her package included some new ones, at least some rare ones. I presume she requested you if you desired to honor her, to use her maiden name Pulsifer.

The "report" came through the snow blockade only last night,

where we but few <sup>flowers</sup> omitted and so much information gained that I have enough to feast upon for a season.

I did not expect to get any

credit on that package, they were mostly common. You would be surprised how differently my botanical correspondents at the East have determined some of them are now. Hereafter I shall only be satisfied with the ipse dixit of Harvard.

Now let me answer your questions. You ask "Is the 'Big Spring' in Plumas Co?" Yes it must be, but it must be <sup>very</sup> near the east line of that square tacked on to the N. W. Corner of Plumas.

2nd "Is the root of *Corydalis Casiana* perennial?" I think it is. Will determine early this season. The Big Spring is about 80 miles away.

Will attend to getting roots of all the plants you speak of as early as I can get to the ground. Snow now 2 feet to 4 on the level, and in consequence great destitution.

( Personal )

Now ask me to let you know if what Sargent writes is satisfactory. Yes on the whole if he does as he says he would like to, I am content. He writes a long letter specifying what plants and what bulbs, seeds roots, &c are desired, then says that his relations with English florists are such that he thinks I can make a little money out of it in the end,

I hope this is so, I am working very hard, am neglecting all else and bringing down the displeasure of former friends and the ridicule of enemies. & all for what? I have not realized over \$30.00 for 2 1/2 years work and that by the kindness of Bolander. I will say no more. I ought to quit stumping for many reasons

but, perhaps I will travel as long  
as I can get over the ground,  
afflicted by friend Case I have  
just put up a package of over  
200 spines for you, but must not  
forward until I can write out  
the notes promised.

There are a few duplicated  
I see on account of the work  
being done at different times, and  
the weather is the very hottest,  
distracting ones memory.  
I will better off with the  
packages that you may in  
your cool brick-walled room  
be looking at them, I have  
not sent many that I am  
familiar with at Bridgman, but  
included a few to let you know  
the range of them.

Whenever of errors or inaccu-  
racy you meet with, please re-  
member that mercury stands at 93°  
on the school-house black-board, and  
then forgive your inspiring, but  
very much obliged friend D. D. Garrison.

- 403 Indian val & (Shoshone) Teche.  
 404 " " " Hoback,  
 405 " " " (Denute)  
 406 " " " (common)  
 407 Forest City (Sierra Co.) & Big Tree Grove;  
 408 " " " (Denute)  
 409 valleys of Coast Range  
 410 Coast at Santa Barbara,  
 411 " " " on high rocks  
 412 " " " } Lichens  
 413 " " " }  
 414 on dead trees } fungus

- 415 Washington, level 3,  
 416 " " " (Sierra) quite rare  
 417 " " " localities in foot hills, (standard)  
 418 " " Philadelphia (Denute & near Townsend)  
 419 " " " Common in lower valleys than (Sierra)  
 420 " " " Trillium from Calaveras Big Tree Grove,  
 421 " " " (Denute) Cordialis, foot hills,  
 422 " " " (forgotten)  
 423 " " " large stalked peas, com.  
 424 " " " (Denute) gigantea (hard to get.)  
 425 " " " (Denute) & (Shoshone) Rio, (Calycanthus)  
 426 " " " " "  
 427 " " " Calochortus, beautiful large variety, in wet places

I'll send a box of roots & bulbs soon, including the two *Inesias*. Snow has just left the ground over them. Please direct how to pack, & how to address. Stock still starving to death but relief must come out of the ground soon. Hoping that something in my little package may interest, I remain, hastily but very truly,  
 Yours &c., J. H. S. Common.

Sierra Valley, Sierra Co. Cal.  
 April 8<sup>th</sup> 1874,

Dr. Asa Gray,  
 Cambridge, Mass.

Dear Sir,

I have this day forwarded another package of a hundred specimens of plants & a few seeds.

Following is the habitat of the plants. First lot me speak of one specimen before sent (18, 18, 18) either I have mistaken my duplicate or your your determination (*Coltellaria borealis*) is a great surprise to me. I enclose another specimen of what I had retained in duplicate and numbered (18,)

I enclose a few more before sent, in hopes of aiding in discoveries - the others to obtain your specific names.

# List of 3rd Package.

- 814 Indian val. (Is this the same you thought "perhaps new" 100 years ago, common noted by Balcones from me? (110))
- 815 Yo Semite & Indian val.
- 816 Common
- 817 near Yo Semite.
- 818 " Lake Tahoe & elsewhere
- 819 " Calaveras Big Tree
- 820 " " "
- 821 " Common on " oak trees
- 822 " near Yo Sem.
- 823 foot hills (distinct from M. Cordillera)
- 824 " Sierra val.
- 825 " Lake Tahoe
- 826 " Gardens, near Gold Spring,
- 827 " Sierra val
- 828 " Webber Lake
- 829 " high mountains
- 830 " foot hills near Big Tree.
- 831 " near Lake Tahoe, on sand dunes,
- 832 " foot hills
- 833 " near Garrote Yo Semite
- 834 Carson val, Ariz. prairie
- 835 " Sprague's Ranch near Yo Sem.
- 836 " foot hills, common,
- 837 " high valleys
- 838 " " & Yo Semite
- 839 " " in wet places
- 840 " Sierra val,
- 841 " Mt. Squidson near Virginia City, Nev.,
- 842 " Yo Semite
- 843 " Sierra & Indian val,
- 844 " " "
- 845 " " "
- 846 " " " & others
- 847 " " " "
- 848 " " " common
- 849 " " " "
- 850 " Genesee & " "
- 851 " Common on the Nev. plains
- 852 " Sierra valley, common,
- 853 " on mountains
- 854 " around Sierra val,
- 855 " Sierra val, Com,

- 356 " Common on Mts around Sierra val,
- 357 " " " " "
- 358 " " " " "
- 359 " Indian & American " "
- 360 " Common on foot hills
- 361 " " mountains,
- 362 " " in " streams
- 363 " " " " "
- 364 " " " "
- 365 " " " "
- 366 " " " rare
- 367 " " " " \*Populus-?
- 368 " " Indian " & American
- 369 " " " mountains
- 370 " " Sierra val, in sluggish waters
- 371 " " " rare
- 372 " " (determination omitted before)
- 373 " Truckee val, near Crystal Peak,
- 374 " " " "
- 375 " " " "
- 376 " " " "
- 377 " Indian " & Snake Lake val,
- 378 " " " "
- 379 " " " "
- 380 " " " "
- 381 " " " "
- 382 " near Yo Semite
- 383 " Indian val,
- 384 " mountains, Com,
- 385 " Sierra val, " & Webber Lake,
- 386 " " " "
- 387 " " " "
- 388 " " " "
- 389 " " " "
- 390 " " " "
- 391 " " " "
- 392 " " " "
- 393 " " " "
- 394 " " " "
- 395 " " " "
- 396 " " " "
- 397 " " " "
- 398 " " " "
- 399 " " " "
- 400 " " " "
- 401 " " " "
- 402 " " " "

Sierra Valley, Sierra Co. Cal.  
April 14<sup>th</sup> 1874,

Dr. Asa Gray,  
Cambridge Univ. }

Dear Sir,

Postal

Card and gutta-serena recd.

Thanks, Had almost despaired  
of taking the field again this  
Summer - as one needs it, with  
a team to carry ~~one's~~ <sup>his</sup> supplies;  
but your question "How much  
funds will be needed?" reassures  
me and grand excursions into unex-  
plored fields are planned again,

So great has been the <sup>top and</sup> suffering by  
stock that there is an utter stag-  
nation of business in the mountains,  
and I have not been able to get a dollar,

One of my ponies is unfit for business I fear, but can be replaced for \$50.00 perhaps. For a part of the way to Lapenis Peak we travel among acquaintances who will not allow us to pay a cent for food &c, — then the road to Chasta and beyond is all new,

I judge that \$100.00 or \$150.00 will be sufficient to equip us for the start, then I will keep a careful account of expenditures and report, when if you approve of our work you can remit more funds as you please,

In the event of my having to go alone with an umbrella and riding a pony I had calculated to pay expenses by delivering lectures on various topics; but of course that would take time from work on peaks afar from the towns,

The ground is appearing on the exposed portions of our snow-circled valley, and next week I go for roots of the two *Presias*, also the *Gonocarpium montanum*, &c,

Perhaps before I send them I shall get a report from my flowers and your specific directions as to how to pack and <sup>how</sup> to send.

Please tell me if it is too late to send flowers to receive attention before the "Cal Flora" goes to press?

With continued gratitude for favors received and a kindling hope that I may become more worthy of them in future, I remain

Very truly

Yours &c.

J. B. Semmon,



Sierra Valley, Cal. July 19<sup>th</sup> 1874.

My dear Dr.

Yours of the 25<sup>th</sup> of June was put into my hand just at the close of a week's tour, and upon the very moment of departing for another, - so has not yet received attention. Now I am at home with a wagon load of flowers, but tired all out and quite sick - yet feeling glad and triumphant. I have met with wonderful success in finding nearly all the new plants again. The Chilanthum only I cannot place.

My first tour was down the east side of Sierra Val. about 25 miles then over into a creek (Lost Chance) & thence through Beckwith's Gap into Long Val. The vegetation is everywhere so abundant that one of any cultivation is on the spring almost every moment. I gathered 8 or 9 kinds of Astragalus (including the one you honored me with) in one day. I was too late to get the Lesia Stebbi in bloom, - but secured quite a quantity of seeds. I discovered another smaller patch of it in Long Val, opposite the first and at about the same elevation. That val, being a thousand feet lower is much diff<sup>t</sup> in flora, but I was too late,

I ~~fractured~~<sup>injured</sup> my finger so gathering a thorny plant that I have suffered terribly since - preventing writing and almost stopping me from collecting. An my return among other letters came one from Bolander announcing that he cannot come this winter - a real illness of his wife - so I have lost his valuable assistance - and also the opportunity of repaying favors already received.

My second tour of 11 days just terminated, was made with my little son (and, unfortunately, a finger) and extended <sup>first</sup> through Red Clover val. & Genesee to Indian val. where joined by Abert & Mrs Ames. We made a hasty trip up to the Big Spring finding the Corydalis in full bloom and more magnificent ~~than~~<sup>than</sup> anticipated. I did not notice its odor two years ago, and now am overjoyed to find that it is as delicious as the sweet pea. Parting with my valued friends the Ames, I then turned homeward, <sup>via American val.</sup> but when near Quincy made a detour to the west and visited the region of the ever wonderful Salix in Butterfly val. There lives Mrs Austin - a lady of some culture and anxious to know plants by name. Having previously visited her she had collected several plants of interest to submit in this visit, including a beautiful Hebe perhaps the Crataegus, and a species of Parnassia. From thence I came through Quincy stopping a few miles this side

and climbing the eastern slope of Clement Peak.

Several novelties were met with and two plants I never saw before in Cal, a Eriogonum & an Urtica.

But it was in a canon of Mohawk valley only 16 miles from home that I made a most welcome discovery - a fine patch of the new Corydalis Purshii! Parties living near it have been attracted to it for years by its sweet fragrance - one lady had it ~~grown~~ transplanted to her yard last season. - I found it both in seed & flower. The seeds are thrown by the bursting pod with great violence, upon the slightest touch. By the almost ~~care~~<sup>care</sup> in approaching the plant and enclosing the spike of pods <sup>with my hands</sup> as if catching a butterfly I secured a few dozen seeds. I will enclose some and will try to make up packages of novelties at once. My excellent friend Prof Case having vacation now, has kindly consented to assist me for a few days. I will take my boxes of flowers over to his cool school room to-morrow and proceed to the tiresome business of selecting and packing. The weather is very hot and I am so tired and sleepy that it is almost impossible to do anything but collect in the mountains. The plants on hand now which I wish to have determined will make several postal packages, and though I begrudge the time taken

to make them up now, yet I suppose you wish to be  
studying them, and of course that is the objection I  
to get on with the Cal. Flora, I see you are much overworked  
and write discouragingly about it. Would there were more  
collectors and workers to assist you. When the Lick do-  
nation to the Cal. Academy of Science is received, I hope  
and impetus may be given to scientific research, not  
now suspected. Speed the day! By the way I see by  
the papers that I was elected a member of the Academy  
late, so now I shall have an intellectual bond, and

blest with the fellowship of genial minds! Bloomer writes  
me that I must work now for the glory, the aggrandizement  
of the Academy. He urges me to request you to describe  
my road to <sup>the future</sup> for our Academy - rather than the Ameri-  
can, a matter about which you will do as you think best,

About my collecting, perhaps you would prefer that I do not  
undertake so long tours, but the fact is there is such a  
dead sameness about vast regions of our country that only  
long journeys will bring variety. I seem only to have  
commenced to bitinize this valley. One needs to take a  
pony, provisions, blankets, drying papers, and follow every stream  
to its high source in the snow banks, and this too, at different  
seasons of the year. Like David Thorow in his opinion of  
his native home, I believe that every desirable product of the earth  
can be found within the lofty rim of Sierra valley.

As soon as my packages to you are despatched, I go for a long  
cruise over the west side <sup>of Sierra valley</sup> and up Haskell's peak beyond. I shall find  
there the Darlingtonia, and no doubt the new Corydalis.

Brother Case and a few other charitable friends assist me in my  
mad career, so I am as yet, neither quite naked or penniless.

This is of all seasons the most fruitful, so I have large quantities  
of seeds, - from which I must expect a revenue. A long letter  
with a dozen almost innumerable questions awaited me from Carby  
inquiring about the Darlingtonia. I have just been slicing up leaves  
bottling the secretion, pressing the flowers, preparing the pericarp for  
him, intending to forward to-morrow, if dry enough.

Promising to send packages <sup>with</sup> ~~some~~ copious notes some day you will  
excuse this scrawl and always be pleased to command your truly, W. L. Garrison.

Sierra Val, California

July 26<sup>th</sup> 1874.

My Dear Dr. Gray,

Home again  
from a tiresome trip to Shoshone Peak  
and Gold Lake. A large party of  
young folks - mostly my pupils - ac-  
companied me and so my time  
and energies were both taxed to the  
utmost in caring for them. We  
went on horses, each one - girl and  
all - "packing" their own blankets. Such  
fun as they had! But I did not  
sleep two hours in the four days; &  
every muscle is tired out with the la-  
bor of the march & bivouac. I col-  
lected several rare - but not new plants  
including the Claytonia Nevadaensis in  
great beauty. Did not find Barbingtonia  
as I hoped. Could <sup>not</sup> roam enough.

Lifted over a vast area of snow in  
a forest here and there streaked with  
~~with~~ the graceful *Picea canadensis*,  
the stratified *P. grandis*, and the two  
beautiful *Abies* - *Souleyi* & *Williamsoni*, -  
with the immense, columnar *Pinus*  
*Lambertiana* towering over all. The  
ascent of the Peak was easy - even for  
the girls - and the view very wide &  
grand. As before observed it required  
several minutes to extend the vision  
so as to reach distant Peaks. Big  
and that *Capitan* Peak would be seen. Lake, -  
I strained my eyes in its direction for  
full five minutes before its grand  
snow striped dome burst, it seemed,  
into view, distant, perhaps, 80 miles.

This lengthening of the vision by an  
hour's survey of the noble peaks piercing  
the horizon around, was bad policy for  
me as I could not discover several  
flowers noted for collection on my  
return. I seemed to be blindly groping,

But enough of the trip. I have awaiting  
me how you esteemed favor of the 11<sup>th</sup> inst  
with the valuable enclosures. I will  
soon despatch packages which will, I  
trust fully answer your guests' co-  
cerning the new flowers. It is rejoiced  
that you have received applications for  
my flowers. Am invited thereby to  
greater diligence. Have had a good night's  
rest, and now must go to church, (as  
much to rest I must own, as to worship)  
then on Monday up and away to Kibbee  
and the *Capitan* Peak and down Lake, - no, no! the packages, the  
I strained my eyes in its direction for  
full five minutes before its grand  
snow striped dome burst, it seemed,  
into view, distant, perhaps, 80 miles.

This is a first duty - then "Up the  
mountain climbing."

How you are so pressed with work, - and  
not with salaries! Shame upon old Chas-  
lotte! Will she long conf. this. Is  
she proud of Agassiz's early martyrdom, and unregarded  
labor? Ever yours  
H. S. Peckham

Sierraville, Sierra valley, Cal.

July 27<sup>th</sup> 1884

My dear Dr.

Just a few words  
to accompany packages at last  
ready for the mail. The weather  
is so warm that my specimens  
break terribly in the burling, I  
fear they will be indistinguish-  
able on arrival. The number is  
not so great as you may expect  
either; since I have tried to get  
20 or 30 specimens of each species  
whenever I thought the plant desirable  
& this gave me large packages but  
with few kinds. I expect the many  
plants of *Astragalus* will interest you  
as also the wide-leaved *Pentstemon*.

Prof. Cargent asks for ligneous  
specimens. Some are with yours

others will be sent in the Fall,  
(I have written him a letter &  
day in which I talked business a  
little, I trust I have not  
demeaned myself as a gentleman  
and one desiring above all things  
to advance knowledge, <sup>when I</sup> ~~to~~ insist  
upon my arduous labors being in  
a little way recognized. After  
showing wherein expenses had been  
necessarily incurred in botanical re-  
search for 2 1/2 years past, and assur-  
ing him that I had a valuable col-  
lection of seeds, bulbs, &c to send  
somewhere I then stated that "upon  
the reception of \$50.00 with which  
to commence paying debts incurred, I  
would commence forwarding," &c.)

Am I not right Dr.?

Hastily but very respectfully,

Yours &c,

J. S. Seemmon.

Notes upon a few of the  
Plants sent to Dr. Asa Gray.

July 28<sup>th</sup> 1884,

(All of Sierra valley, except otherwise noted.)

No 414. From a little canon of Butterfly  
(near Quince)  
valley. Collected first by Mrs Austin.

415. Growing on "big spring" near Corydalis Caseana

416. Common on hill sides

418 to 420 Abundant in S. valley - this season, prostrate

421. Long valley. under sage brush,

423. Near steep corral - perhaps introduced,

424. "in" S. valley. Seen 2 years ago,

428 "Big Meadows". Flowers large, pale blue, showy,

434 Leaves shades on high mountains, often 4 feet high,

446 "

448 Abundant, leaves distinct from C. variegatum etc. <sup>unfelt</sup>

452 Set this one specimen found in company with Silene acaulis

454 Distinct from Dracopis suffruticosa, branches spreading,

455 Did not see it in flower. Long valley to Honey Lake,

456 Near Purdy's. Long valley. very showy, (roots & seeds secured.)

458 Clover nat. pale-flowered

459 Must be distinct from the low, smooth, purple & white?

461 Clover valley 13 miles north of Sierra rd,

463 Rare, Indian val & Butterfly,

465 Distinguished this season by its long runners.

470 Only one <sup>in Sierra valley</sup> locality yet found in all this upper region;

475 An arbuti - like

486 Side of Inland this - north of San Francisco.

494 Mud of alkali springs

500 Several shades, from white to deep red,

501 In the breezy Beckworth Pass. (not quite blown.)

502 Shows yellow bloom. creeping roots

505 Leaves very sweet-scented, Petals soon closing in sunlight

506 Borders of meadows,

508 Erect, robust,

514 Long valley & Carson,

515 " " branches leave the root - 2 or 3 inches - beneath

the surface, and radiate upward & outward, very pretty,

517 High canons, often robust, 4 feet,

518 One locality near Layton,

521 Think I've not sent this Penstemon before. Flowers large,

showy, branches radiating outward and upward often 2 feet.



- 524 In. Long 1.00 running water  
 525 Small specimens  
 531 Not quite full-blown  
 537 Clear valley Is it A. Lemmonii, nearer ripe?  
 538 Rare in high springs  
 539 Marshes of Big Meadows, near Indian  
 542 Stalks numerous, tall, rare in Lemnipee val,  
 543 Indian val, 6 feet high, seems to be excellent for hay,  
 544 Same as 432, mistake?  
 545 What I have marked as Streptopus.  
 546 Robust, from Indian val to Go. Summit  
 548 Flowers white, stalk slender,  
 556 Small, low, about springs  
 558 Stagnant waters, the wide leaves flat on surface,  
 559 Common, leaves sweet-scented, recurved, glaucous  
 562 Indian valley, Collected first by Drs. Ames,  
 563 Butterfly " near Sarlingtonia  
 565 Terrestrial, flowers green,  
 566 Indian val,  
 567 " " "  
 568 Sierra to Indian val, appears distinct from  
 540, larger, blossoms later, at a lower elevation, with  
 buff colored flowers amidst the leaves (wider)  
 571 Pod persistent and with the stalk remaining strong as a  
 buckskin string during second year,  
 574 Lemnipee val,  
 573 abundant, also to Washingtonian in Mohawk val,  
 575 Flowers more scattered than C. esculenta  
 576 Around springs, very beautiful  
 576 Indian val  
 581 " " x Butterfly,  
 589 " " "  
 591 " " Spring, overlooking Corydalis Caseana,  
 592 " " or Clearmont Peak, near Survey  
 600 " " "  
 612 " " "  
 613 " " "  
 615 American val, always large, often bronzed  
 608 Mohawk " viscid leaves  
 620 Potentilla platensis in fruit, (seeds secured.)

P.S. Putting them up at different times I  
 find many duplicated, and many omitted that  
 must now wait for the next package.  
 Despatch also by this mail a package of Sar-  
lingtonia to Wm. H. Canby, and of Salix to  
W. D. Bebb. Other shrub & tree specimens to be for-  
 warded to Prof. Dargatz, soon.  
 (Notes on New Plants on next page)

## New Ones

- I. Astragalus Lemmonii, Quite abundant this  
 season, from E. Brights to Dr. Webber's. Think I gathered  
 it for Bolander, but the matter of priority is of no  
 consequence. Stems numerous, prostrate, radiating, leaves dark  
 green; flowers light blue (never yellow), fruit abundant.  
 Specimens sent are necessarily small (not worthy of cultivation)
- II. Ivesia Webberi (Should the spelling be Webberiana -  
 since the Dr. never saw the plant until I brought it  
 to him this spring!) Specimens in fruit. Found 3 miles  
 from Dr. Webber in W. val. and near Paradise in Long val.  
 Flowered in May. Germination speedy, location a dry  
 stony hill-side with clay cement; roots a foot deep.  
 (Quite a quantity of seeds secured.)
- III. Corydalis Caseana, (Please indicate the pro-  
 nunciation of specific name.) Magnificent in appearance,  
 pea green leaves, white or cream flowers with  
 purple throat, very fragrant, resembling sweet pea, sta-  
~~ment~~ <sup>ment</sup> terminal, often close, generally open, pods  
 small, flat, elliptical, green, at length opening with  
 a violent spring throwing the flattened black seeds to a  
 great distance. The root must be perennating, I saw  
 no small ones having the character of seedlings of  
 the first year, but all were large, running  
 down to a great depth, having a strong smell, and  
 often separated into net-work like the specimen  
 forwarded. (A few seeds secured.)
- Localities of growth so far as known.  
 1st The Big Spring (I intended to grow it, winter, but  
 it seems to be dead at some, being 4 feet high &  
 very full-flowered, the roots being deep in the  
 water as cold as ice itself -  
 2nd 2 smaller springs on the way between  
 Big Meadows and Gadsden's Peak,  
 3rd A cold-water ravine extending up Gad-  
 sden's Peak, - the ravine leading down into Mo-  
 hawk valley, about 16 miles distant from Cle-  
 erro valley,

From  
 J. H. Lemmon,  
 Sierra Valley,  
 Sierra Co.,  
 California.

if possible secure more seeds, should  
Prof. Sargent relent I may be enabled to  
send you desired plants annually,

And now my dear, generous & sympathetic  
friend in closing perhaps my last botanical  
letter let me renew my grateful ac-  
knowledgements for honors bestowed, and  
favours extended. And when I think  
of the extent of your kindness and of my  
extreme unworthiness. I do not regret the  
time lost or deplore the strength wasted  
in my favorite pursuit since it won  
me the proud distinction of a corres-  
pondent of yours and a member of  
the Cal. Academy of Sciences!

Upon reflection I am too busy in resolv-  
ing to cease writing. I must answer your  
questions if any should arise, concerning  
the last two packages of flowers sent, and  
then too, I must send another lot  
now on hand for determinations, and  
next winter please tell me how to  
arrange and forward all my collections  
for your correspondence. There are a  
number of large bales. How many  
specimens of each plant, and how put up?  
I will have to charter a church again  
to classify and condense. Dr. Babber has  
kindly booked me his hotel at the lake which  
I can protest from the deep snow, while  
I arrange my plants in the bear solitude -  
not a soul within 5 miles for 4 months.  
I enclose specimen of *Erithidium*? fear over-  
dried, as they were speckled with rust & had to  
be washed which spoiled them.

Gratefully & faithfully Yours &c, J. E. Sweeney.

P.S. And there no  
more of applications for  
specimens. I have given  
usually, about 20  
specimens of every flower  
gathered  
About the Alps of  
Silvia & other mountains  
which are their seats  
I waste their  
energy can  
I form a  
series as to  
they go over to  
hold the and (un-  
a week for the night  
season for gathering. Prof.  
I have seen my little made  
about on my own trip to  
Dr. Sargent's. I declare that  
I ought to go to Europe for  
my collection and has  
collected  
to visit  
of your things  
make up  
the collection  
specially

4th & 5th inst finds me at home  
sick, broken down and discouraged.

Never before since I ran off on this  
Botany tangent have I felt so de-  
cidedly foolish and regretful as now.

Hoping all along that there might  
be a living - an abstermious existence  
made out of this collecting, I have  
devoted every energy and piled every  
artifice to it, and now after broiling  
my brain - before baked in Anderson prison -  
in the collection of desiderata for Prof.  
Sargent, Lo! he is immovable, will  
not advance, even despite your ur-  
gent arguments. my noble friend!

I don't know what to do, I am

ashamed to ask farther assistance of  
my faithful friend Case. for with  
his meager salary he is supporting  
and schooling his only sister, — and  
besides other expenses for my outfit  
I owe for the clothes on my back.

And now when I looked certainly for  
a remittance you inform me that  
success depends upon getting seeds  
of the Abies amabilis — a tree  
which if I have found the right  
one is 25 miles away up on the  
west slope of Haskell's peak, or as far  
beyond Webber lake in another direction

I am resolved what to do. I shall  
make me more effort to borrow money  
and if successful, will get a copy of  
Dr. Chase's New Recipe Book and go  
to canvassing for it. It is a good  
book and I believe will sell.

So my dear Dr. and noble benefactor  
if you will send the small check on

D. \$, which you spoke of, I will with  
it begin forwarding seeds & bulbs, of  
which I have perhaps 50 kinds. Among  
these I think there are some nicely  
adapted to the climate of Boston. The  
new Presia with its relations must  
become a favorite there, on account  
of the beauty of their leaves. I have  
quite a quantity of the roots (and a few  
seeds) of the Hebe (dug for  
Bolander.) some bulbs of the rare and  
beautiful Fortillaria judica. seeds of the  
different kinds of Ceanothus, (Ceanothus, hilde  
and all others) Trifolium &c, &c. These I will forward  
as soon as able, desiring your specific  
directions as to packing.

There is one botanical trip that I must  
make if able and that is to Webber  
lake where lives during the hot season  
my noble friend and first patron —  
Dr. Webber. I desire to climb the  
peaks about him once more and

1. 1. A few words concerning habitat  
of certain plants. The Boesia st. b. b.  
grows in a tough red clay mixed with  
stones on a swelling knoll extending  
into the valley. Scarcely any other  
herbage accompanies it. The earth  
cracks about the roots and this lets  
in the seeds. After laboriously digging  
with a mirror's pick for half an hour  
I found at the depth of 18 inches the  
roots, smaller of course, but still decaying.

I secured half a dozen <sup>small ones</sup>, which I think  
will grow, having a bit of clay still  
clinging to them, & planted them near home.

Its relative Pickeringia - both white and  
yellow love similar soil but lower. In  
several places the yellow variety exhibits  
decided selfish qualities - aggrandizing to  
itself whole fields to the exclusion of  
forage plants - thus becoming a pest.

Commencing to flower in June it is still  
in very full flower, nicely exhibiting its  
growth in various stages.

The Astragalus humilis I find in many places, always on alkali soil and often accompanied <sup>to</sup> the smaller inflated-pod species, & others. On one little mound created by the wind and inhabited by a pair of owls and rattlesnakes. I found five kinds of Astragalus.

The stream has early dried up this year, in which the Mossilia grows, before even a leaf appeared, so can get none,

Search is still vain for the Chil-anthe filice. I think it is the only plant whose position I cannot recall. I thought to keep a journal this season but have not, no time,

I have heard of another locality for Corydalis Cassiana - Grizzly valley - 40 miles north, between Mahawk & Calover, Am not so fortunate as expected about sowing seed.

Broke off half-filled spikes thinking they might mature <sup>but they</sup> ~~will~~ <sup>not</sup> ~~be~~ <sup>so</sup> ~~late~~ <sup>but</sup> ~~about~~ <sup>as</sup> many more good seed as I sent you.

Mostly Yours,

J. S. P.

P.D.

Evening, As I took  
my letter to the office a large  
number of botanical letters were  
handed me including yours con-  
taining the valuable enclosure,  
Many thanks my kind and  
generous patron! I recall  
all my discouraging words  
in the letter accompanying  
this and will dash ahead anew.

Am sorry if Prof. Cargill  
took umbrage at my business  
proposition, but certainly I  
must be rewarded or I will  
become a common pauper.

Wish I knew just what  
specimens you desire. Have  
a large amount, & no doubt  
some undesirable.

Will now forward (after my  
return from Webber Lake,) specimens  
of ligneous plants seeds bulbs &c, to  
Prof. C. and another package to  
you. Long letters read to you  
Cady, Bebb & Steyer, All want  
special plants, &c.

Weather hot by day but  
nights getting cool.

Again thanking you for your  
welcome remittance as for other  
favours I am very truly

Yours &c; J. S. Semon.

now of two of them were at length.

That the lumbermen & hunters have call  
"Silver Birch" is a beautiful drooping <sup>limbed</sup> tree  
in small quantities in the mountains.

Nothing can exceed the graceful dependence  
of its branches, the upper ones being on  
each side with little horizontal ones. It is  
not 4 or 5 feet high & not a large number  
of these are found within 4 or 5 miles  
of Lake, some of them approachable with  
my little wagon, and with an axe I can  
reach a large quantity of cones. But the trees  
are not old enough yet - a last  
year's blight by the squirrels & they  
have not yet begun the attack.

When reading your letter we read what a  
lost them, 1910, we had to conclude  
that the above is not the *A. canadensis*  
but *A. longicaulis* - but it can scarcely  
be less desirable. It is an evergreen.

Another tree No 6 in my readings - is,  
I now think, the famous *A. canadensis*. I find  
it after a magnificent tree, with greatly eleva-  
ted crown and with limbs perfectly arranged  
like in case of *A. canadensis*. The upper bearing cone is  
the end an upright close-packed, large, flat  
cone, 3 to 6 inches long & half as thick. If it is  
the squirrel eat it and that I never saw a  
single cone on the ground. The lower branches are in two ranks  
lateral, the upper ones scattered, shorter and more  
upward.

Other tree, a close relative of the latter, the  
limbs much more numerous, small, green cones,  
is this *Abies grandis*? (Another tree.)

My dear Mr. Gray,  
I have been very much interested in  
your letter of the 18th. I have been very much  
interested in your letter of the 18th.

Webster Lake, Sierra Co. Cal.

Sept 4<sup>th</sup> 1874.

My dear Mr. Gray,

By invitation

of good Dr. Webber extended to me  
in Sierra valley, last summer, here  
am I in this cool,ylvan retreat;  
grove of pine conifers shading my  
head, the most beautiful of lakes re-  
flecting snowy peaks above me, and  
the brightest of flowers greeting the  
eye on every side.

I try to be duly grateful for all  
favours of this kind grateful to friends  
for rendering these blessings, and to God  
for the capacity still to enjoy them.  
I am deeply conscious that I would  
not get on in botany at all if it were

not for such as are friends of Dr. Webber  
Prof. Case, and, most generous and  
helpful of all "hard Dr. Gray" than,  
the great consciousness of I find in  
success in the most pleasurable department  
of Natural History, continue to accompany  
you, and, after this life of toil, may you  
roam at will through the typical groves  
of which these noble forms are but the  
faintest outlines.

It would give you had this chance to lay aside  
your pen for a few days and repose in the  
cool harbor of the M. or float if you chose  
in your sail boat. These pleasures are not  
for me. I have been <sup>now and</sup> weary every hour,  
and to-day am so tired out that I have  
resolved to rest and write.

I am so disappointed in not having  
1<sup>st</sup> the company of Dr. Bolander this season,  
2<sup>nd</sup> no description whatever of our alpine  
flora, particularly of the California

illustrations of his wife. I see descriptions of our  
forest trees I found in D. F. and asked  
books of Gray & Watson, it was referred  
to Bolander. In an article of Bolander's  
in a certain No. of Reports of Cal. Academy  
of Sciences. Came home with it rejoicing,  
On perusal found it to contain brief de-  
scriptions of the localities (but not descriptions)  
of a few coast trees.

So here I am in the high Sierra  
without a line of description, or a single  
atom of correct information, except as to  
quality of timber. The lumbermen can  
tell of that but of course, get names  
terribly mixed.

I gathered twice all the season and  
two weeks ago, forwarded two packages of  
a hundred specimens to Prof. Cargent. I fear  
some of them will mould so as to be un-  
distinguishable as the Prof. was so anxious  
to see what we have here, that I had to  
send before dry. I will add descriptions





Aside the Sugar pine, the largest tree here, the white-pined pine is most desired by lumbermen. The latter is much the most numerous and is found on low plateaus, & in the black pine country, & is indistinguishable to the eye, except in its fruit, <sup>usually in pairs or threes</sup>

(One bears large (7 by 3 inches) <sup>usually in pairs or threes</sup> cones, the other <sup>very numerous</sup> small, (3 by 1/2 inches) green cones, in clusters.

I wish I knew the specific names for these. (Ponderosa or ~~mon~~ monticola? or neither. You see what a maze I am in for want of knowledge.

Prof. Sargent's report - daily expected. will settle the names of such as I sent you. Meantime I will dash away at "the G." it appearing the nearest ripe, believing that to be, at least, one of the desiderata.

Pinus contorta. I believe I know that for certain, called generally "Juniperus" is quite abundant here. Can get plenty of cones, but I do not suppose it very desirable. The larger tree resembling it, but taller and with long dependent cones, grows

on the mountain tops, but can be approached with pack animals, for which I often use my services.

Will not the seeds of the largest cone ripen through the tree before maturity?

I know nothing of the time requisite for drying cones, but will watch close, and write frequently.

Can you give an estimate of what any particular seed will be worth for oil or lb? If it is not a high figure, it is no more as if our volume will not pay. but perhaps the seed is more abundant than I now suppose.

I'm hunting for the best opportunities to desirable trees. Of course the flowers will meet my eye & yesterday I found half way up a mountain on the north side of the lake several novelties - one apparently an Abies. I never saw the like before. I have specimens drying, and brought down roots for our botanical garden which is fenced off in one corner of the Dr's down-yard.

I propose to see it with the Dr's willing help, & what effect transplanting will have

After this one galling season is  
 concluded, I will be ready to forward dried plants.

I have some are being sent, especially  
 of the large ones, but they go for  
 this season. Next fall, I think,  
 I had not proper dried until then I was  
 a while with mine, I am all as well,  
 I came west with Harper's mouth at my  
 side. The *Corydalis* was found with that only, the  
 marks about a foot long, show my fingers are made  
 to hold things & I, etc.

Tell me in time what I have to send,  
 shall I send me all my collections in suit  
 or shall I charter a steamer for a week and  
 arrange them into their Orders? As I do  
 but better select a certain number of sets  
 of the best specimens. I do, and so save ex-  
 pence. Among my colls, there are many  
 that were over looked when I had them  
 packed, my packages for you, so it is prob-  
 able that in some interesting ones, I  
 must handle them as little as possible in  
 warm weather. Shall I pack in large boxes  
 and send by Express? It would be much  
 cheaper and if you think best I can pack them  
 up for the rail, instead, only they must be  
 insured, if not insured by the freight forwarding.

Among my baggage I am making up another  
 package for you. I am written a fruit missing near  
 Gold Lake, to just a word, the name I omitted "I am  
 or there" are here, cannot find *Aralia* this season,  
 the nearest is at the Kamoville Falls. Have you  
 heard of the very prolific and edible plants growing  
 about there. Butcher? *Citrus* are yellow, some near  
 by the wagon road. They make excellent sauce, either  
 to give my patient & generous nation as "Coke"  
 biscuits, but hurriedly, yours &c.

About the *Corydalis Cassana* I  
 think I reported the root as perennial,  
 and still think it is so, but I may be  
 mistaken. The stem is so succulent that  
 no doubt it soon rots completely away, so  
 I saw not a vestige of an old stem.

But the roots are so large, and well  
 located, as I thought, exactly where were  
 those I first saw. But the plant may  
 be biennial instead. In the "Big  
 Spring" there is even no small plants.

All are large and terminated by blooming  
 umbels, but at the Hoback locality  
 there are many small plants seen.

Examinees are near the limit of the  
 Orders but if there is time for changes  
 I will make an early visit to Hoback  
 next spring and report upon some bearing  
 plants marked to test this very point.

Am sorry the seed are so difficult to  
 collect. Must employ some children next season  
 to pop among the plants every day in the season  
 of ripening and steal a march upon the wary pods.

Strange that I do not find the  
Chelanthus filosa again. I know  
it is not far from here for it was  
among the first plants reported, before  
my trip to Go-Senite, N.H. as we  
now call Lake Umbagog.

A beautiful Alrodia escaped my net all  
last season and this time until a few  
days ago when I found a lot of it  
most unexpectedly on a dry bank of a  
creek. It was loaded with large, broad  
pods. I sent a quantity to Prof. (Sargent.)

Now when yesterday I went up a little  
lake - high up on a坡, the entire eastern  
shore of which was lined for 10 to 15 feet  
with apparently the same Alrodia. The  
locality is but dry sand and gravel, where  
the water went in spring but now I feel  
above water level. Have dug up roots for  
our bot garden and for you if desired  
this Autumn, I see no pods on this.

I think it a beautiful border plant, though  
it must travel to keep.

I am truly grateful to you for  
dear Sir, for your offer to take charge  
of my dried specimens. Of course I  
did not expect you to attend to seeds.  
I look to Prof. C. for that business.

I think it <sup>not long</sup> remarkable that you have  
in the time, to accomplish so much  
in your special science. It is astonishing!

You seem to have put on every robe left  
by your predecessors and today with it  
rest in the long line, still works for us.

Beside the heavy volumes directly the work of your  
hands how many constantly quote you, and  
our dictionaries place "Gray" as the highest  
authority you obtained names. When I  
think of your deserved eminence, I am  
amazed <sup>at</sup> the familiarity and kindness you  
extend to such as I. Truly the good  
deeds are great, and I regard even this  
business correspondence with you as of more  
value to me than all the victories I am  
credited to in affairs of winning over the ~~the~~ <sup>the</sup> enemies  
of our country, in the distant South.

I have been a  
 two weeks back from the bank  
 and I have not received from  
 you any money, I am not sure  
 that I can get exemption of my  
 last package has resulted in the  
 loss of it so I am unable to  
 I am unable to send to you that  
 the package is not at all as  
 I named for you. I will be able  
 to send you a package as  
 "the life" now in a letter to be in  
 I am, and the Christ, I will not  
 make a new one at all, I will not  
 a letter at interesting - I only hope that  
 the money

Will answer your questions in  
the letter first, then those in  
the list.

About the Eutrichium, I have  
one in a but the plate. The first  
was a large round leafy foliage &  
I am ~~afraid~~ <sup>not</sup> that would fill a peck measure,  
growing <sup>eastward</sup> on the roadside in an alkali  
flat. I took it to find it to

draw the leaf and put a description  
in my paper. I remember the leaves

were quite large, white and reminding  
of Eutrichium. The other plant

I saw since was a little a deal  
smaller its being to Trigon. It was

much smaller, half covered with mud  
and, as before, growing in an alkali

basin, - some 10 miles from the first.  
A little of them stood over 6 inches high

Both vicinities are so much frequented by  
stock to get water that I may not see  
any more another season.

Echinopspermum - I saw & collected  
the species you ask for in a trip to  
Haffie Lake. It is dying at the shore.

I'll send it with <sup>some</sup> others, some also  
one more robust specimen was collected,

and a little more. Eutrichium some  
near there,

Am becoming quite alarmed at  
the added particulars you give con-

cerning the run to some specimens  
but some of all the coll. are full

enough. All my fault. I did not  
heed your directions in time, the

dryness was so severe that I avoided  
large leaves and roots, show with

your excellent paper are making  
a few good specimens - not a few, for

the season is past and I am cutting  
down trees to make a raise on the

bank of conifers. I have about 12 good  
specimens of conifers - not a few, for

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down trees to make a raise on the  
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J. G. Lemmon,  
Sierra Valley, Cal.,  
Amateur Botanist, Collector in Natural History,  
AND DEALER IN  
SEEDS, BULBS and ROOTS of Rare California Plants.

Sierra Valley, Cal., Oct 1<sup>st</sup> 1874

My dear Dr. Gray,

Sent you a  
small package of flowers last week,  
and forward another to-day. Please  
report as usual, to old address.

Find that I am bothered with  
the cones, not ripe yet. Wish I  
had spent the time in excursions  
to high peaks - too late now.

Have agreed to remain here this  
winter and protect the Dr's buildings  
from the snow. Shall enjoy a  
good chance to study & meditate.

Now, wish books more than ever,  
I am getting but your "Vegetation in  
and around  
Botany", "Flora", ditto, Darby's "Flora of  
Botany", and B. Smith's "Collected  
Plants around San Francisco".

I shall be grateful for anything



pertaining to our plants which are  
now <sup>very</sup> afraid in procuring for me,  
London if R. D. promised me,  
Torrey's works long ago - but the  
have not arrived - now Watson's

Have not heard from Liguens specimens  
sent Prof. Dargent, but report now as  
awaiting me in Sierra val. I have  
once a fortnight. Would go often  
but for the tall. Next time will  
put up bulbs for Dargent. Could go  
now to Mohawk for white lily bulbs  
if I knew he wanted them - also  
Leucocorinum. May go in a few  
days to English Peak - a lofty height  
near the dilapidated mining town of  
Meadow Lake, - but perhaps it will  
not pay slower pace.

Have you ever seen our Sierra-plum etc. Are only coming up, after common  
flowering near Lawrenceville Butte? This  
year very large and abundant, gathered  
by Chinamen by the mule load.  
Make excellent sauce & jelly. What is

its name? Do you want any species  
of the so-called "Coffee bush" - Frangula  
Cal.? or of our Mountain Ash? Can  
you find it only.

Make daily additions to our bot-  
anical garden. The latest - Cassiope  
Martiniana, Primula suffruticosa, Halenia  
glauca, Eriogonum longum, Woodsia  
Oregana, Cyrtopogon gracilis &c.

About the Pentstemon (No 568) you  
say "appears to me same as No 113".  
- So it is, - but not same as No 40.  
When I sent 113 you reported "not  
same as 40. Look out for it." It I  
did, and find it very different - in aspect  
& habitat. Have not heard from  
Leucostictis Lavie yet.

Do not expect many orders on last job.  
Are only cleaning up, after common  
plants to be correctly named. Sent more  
willows to Mr. Bille, to report from Carby  
yet. Prof. Dargent anxiously awaited.

Hurriedly but sincerely Yours. J. G. Seward.





**J. G. Lemmon,**  
Sierra Valley, Cal.,  
Amateur Botanist, Collector in Natural History,  
AND DEALER IN  
SEEDS, BULBS AND ROOTS of Rare California Plants.

Very truly  
Yours, J. H. Munson

Webber Lake 3 feet <sup>7-10-10</sup> deep. the Cal, Nov 17. 2.9 ft. 187x

My dear Dr Gray,

Owing to my being so constantly hurried of late I inadvertently omitted to answer some of your late questions,

1st The Caliospermum floribun-  
dum L could not find the re-  
son, dont think it grows here

Found the 2 varieties. Last year  
near Leather Tallow,

2nd On my hastily written report  
to Sargent of Plants Common and rare,  
growing in Sierra Vol. & vicinity you  
write opposite Streptopus angustifolius  
"What is this?" I answer it <sup>is</sup> number  
377 of specimens sent. The report is <sup>made by</sup> ~~in~~ the  
~~hand of~~ Watson, I think.

3<sup>rd</sup> <sup>(1)</sup> Failed to get seed of the rare Senecio. My friend couldn't spend the time.

4<sup>th</sup> On final examination of season's Coll. fail to discover any more specimens of Ranunculus Gemmae. Cant recall the

locality either. Must surely find it next season. As I made one trip to Indian val. this season, it might be there.

5<sup>th</sup> About the last new find - the Ranunculus oxyrinus. I found it on Castle Peak, (the one previously described as being 6 miles north of C. P. R. R.),

It grew in the <sup>discovery, etc. sand stone of the</sup> sheltered north side of the highest Murrets. - about 9,000 feet. I brought away all the plants found.

The Luesia Gardneri (as I make it out) grows near it, gathered both Aug. 21<sup>st</sup> & 24.

I ask for a credit on the R. since Dr. Bolander, Dr. Cooper, Prof. Davidson, and I think Prof. Brewer have each explored the Peak, expressly for plants.

That one trip is all I've made south of home this season, and I am by no means certain that the region is

exhausted. I have desired very much to visit English Peak & other west of this lake - about 20 miles but could not.

Perhaps Dr. Bolander will go with me next season during the 2 months he promises to tramp with me.

But take all the new & rare plants together and your prediction is right, i.e. that the terra incognita is to the north and east of my station. There is a densely wooded lake country around Gold Lake & Haskell's Peak which must be stocked with rare flora, and another high lake east of Big Meadows. After filling up the blank caused by my visit to Id. & Co. last Spring, by collecting in Sierra Val. until June; I will then try to visit these regions; then in Sept. next I must go to Shasta via Cooper's Peak. I only had 2 numbers of Harper's Monthly for my entire portfolio before <sup>at Cooper</sup> now with a fine press and abundant paper I must find more.

I am astonished that any good thing comes out of this Nazareth. A chaos-box! I have new of Nazareth, and I beg you will name for Dr. Robbins, I think has large, long, and but slightly curved, nearly terete, evenly distended, yellowish pods, so it grows on the south side of Indian val., but if the pod is not similar to above description, the plant is one of a dozen gathered in one day near the lower end of Sierra valley - and would then not properly bear the Dr's name. I have now lost that genus. I had and I made a mistake at my specimens. I will soon have a new one to get it out of.

*Chamaesura* (*Chamaesura* *nana*, n. sp.) is found near Webster Lake. In the evening, late, I discovered the plant on a nearly barren, sunny sand bank, thinking it a var. of *Chrysalis* Penn. I hastily gathered a few plants for distribution without examination, I think it was hardly in flower. About the same time, a little friend whom I wrote to try and gather its seeds reports making two for them a long day's ride, and fine success. Second all killed with frost, the same early storm that killed the *Bryanthus Breunii* &c here & came near catching me in the snow with all my seeds.

I am puzzled over one of your determinations, May No 215. Part of a single branch of a tall 30 inches stout plant, the like of which I never saw before, you name *Thachia hydrophyloides*.

I'm deep sorrow but with profound respect my dear Dr. I remain,

Yours very truly,  
J. G. Lemmon.

J. G. Lemmon,  
Sierra Valley, Cal.,  
Amateur Botanist, Collector in Natural History,  
(AND DEALER IN)  
SEEDS, BULBS and ROOTS of Rare California Plants.

Sierra Valley, Cal., Christmas, 1874

My dear, self-sacrificing Dr.,  
Dear.

Favors of the 12th & 18th com. and with a plant (no date) all came in a bunch with a speck of other matter, by the hand of an accommodating "trapper". And you are devoting for days, the entire labor of your "own hands and head" for my benefit! and "would not do it for any one but you"!! My dear, dear Dr. I am overwhelmed with shame, too late, too late comes my deep contrition that that my impertinent impertunacy has procured such a great sacrifice! Please check at once!

the least approach to infringement in  
future.  
... your time and attention, and  
both of which, two worlds wait!

Command me in anything, here  
after my dear patron, send me where  
you will. Most willingly I give  
up Shasta for Lassen's nearer  
peaks, next season. Most hum-  
bly will I join an ardent  
honorably to Prof. Sargent by this  
mail. What extenuating cir-  
cumstances can I plead for the  
injury I've done you both - my  
best friends and helpful patrons!

All I will repay, are - great  
nervousness caused by rebel. prison  
fare and expense over work,  
and I know that neither or both of  
these ought to protect me from <sup>incurring</sup>  
your (lasting) dis'pleasure. I can  
only confess my sins and beg forgiveness.

crowns, rest restores reason and  
judgment ascends again her throne,  
Drooping penitent tears on these last  
days of the dying year that has  
done so much for me, I have  
renewed the determination to guard the  
coming days of the new year  
they few or many for me. Firmly  
against impatience or reaction, what-  
ever my exhaustion & pain,

I will try to work less and write  
more deliberately in future. In fact  
the financial aid you and Sargent  
have forwarded will enable me to get  
on better in the world. Already  
a few of my old time friends have  
changed front, and smiling, assure  
me, "I knew you would come out  
right all the time." and new friends  
appear among the discreet, practical  
- (apt - whose companionship is valuable,

broadest, deepest mind that ever enriched that College! You notice, perhaps, that Watson of the A. A. Observatory was one of the Transit observers in the south seas. Your Tribune comes & -  
 hand. What a treat are its pages in my isolation! Your articles with Riley and all others on scientific topics are read with absorbing interest. Am reading also Eschsch of Agassiz, Thomsen, and all the Edwards (astronomy) &c. Grand ideas they open to my starved intellect of the deep & and mysterious. Agassiz combats the development theory with lusty blows. Have not read the other side. Have just sent for the authors. Wonder which way the heavy weights of venerable old Harvard lean? and College faculties, generally?  
 Have made the great & good Agassiz, have little but claims, yet his discomfiture revealed the true positions of the Orders in their respective groups, corroborated Seimann's prophetic "omnes vivunt ex ovo," and proved that all animals undergo metamorphoses, &c. &c.  
 Have a hundred (or less,) questions to ask you by and by. Will put them all into the direct form, with a blank in which you can write "yes" or "no" and return.  
 The little cards you enclose are just the thing. Must get some like those.  
 Sent you my "Trip to Go-Devil" last week. Hope you will not let that or any thing else from me, take unworthy attention, in future.  
 Wishing you my dear Sir, a happy day, and great triumphs, unalloyed pleasures, and exacting peace entirely through it and so more to come. I remain hopeful of your pardon, and send the same to the interior myself. Your humble abedant servant J. H. Johnson.

Mandy Dec 25th

I was disappointed about mailing letters the other day, so will enclose another sheet.  
 I have a letter from S. C. L. Roy (curator, Herbarium of Columbia College) proposing (at your kind suggestion, again) to exchange "Gray's Botany of Wilkes Exploring expedition, East of Cal," for my flowers in your hands. I have written him that I eagerly & thankfully accept the offer, and he will make terms with you accordingly. - That work must contain much of interest to me. Watson's "King's Botany" does not come I see.  
 Please buy a copy if no trouble to you, and forward - if you can pay for it out of my flowers.  
 Some one - I suspect Congdon of R. I. - has kindly sent



my "Flora of N. A." published in 1838 & 1840 by Torrey & Gray. It is very, very useful to me, in showing the extent of research at that period. Un- fortunately for me though, that first volume only embraces the Polypetalis. But you will know now, what I have to say to it if it is desired.

Am so glad that "the mep" is panning out so well, as Cal- formians say, — "10 sets!" and "good things". Hope they will be "snapped up" and give satisfaction.

I expected there were some plants in the Coll. that had not been previously determined, and hope there are more yet. In regard to new flowers and their names, my ardent wish is that two more may <sup>be</sup> found in Sierra Val, my home, one of which I want named for Balander

friend and my earliest <sup>friend and</sup> patron, the other for yourself, my most useful and generous one! I want them to be good, showy plants suitable for cultivation that I may plant them in the gardens of my friends to commemorate your services to science and your great con- descension in taking any note of unworthy me,

I am surprised and <sup>to find</sup> pleased that you once lived at Ann Arbor, Mich., my native state. I was born and lived until coming here, 14 miles from Ann Arbor, and have attended many a lecture and class recitation <sup>there</sup> but my Alma Mater is the Normal School at Ypsilanti. You know then what a grand, thriving, enterprising little state Mich. is, and <sup>you have</sup> honored its great Univ. with your instruction, in com- pany with the celestial Torrey, the

I have a reply, from Wm. Thompson, of E. G.,  
containing 15. 10. 5. for Acids. He seems well  
pleased, and wants more, but advises me from  
his experience in collecting, to "get another string  
& my - bow." "It, alone will not pay," &c.

I don't care for pay, now. Am ashamed that  
I ever asked any. Hope never to be asked  
again, that I will forget the sacrifices others  
are making - unrewarded - solely for the ad-  
vancement of knowledge, as Dr. Canby writes.

Have made a portable Herbarium, or Collection  
of Duplicates, divided into "High Sierra" and  
"Low Land" carefully named, from reports, and all  
indexed. Over 700 of the first, only half  
as many of the latterlanders. Am waiting your  
Pacific Coast Botany from Columbia College to  
affix on them. With my Duplicates always at hand  
in the wagon or tent I can the better note differ-  
ences or similarities. Welcome the Goddess of Spring!

Weather, cold and windy, snow drifts 25 feet high,  
out like the hook splendid, others provisions  
holding out well. Come & see me. You can  
find the house by the smoke!

Please send me 2 more copies of Contributions  
and I will forward, also if you can spare them,  
at me purchase half a dozen extra.

Please pardon brevity, and double-lining. Am  
nearly out of paper, than ordered. Have been some  
time alone in my enjoyment. I well know  
that I have killed a rafter on the trail to Sierra  
valley, and it makes my friends fearful of visiting  
me. I don't have a good lot of mail awaiting.

Hope you have found other and prettier novelties  
that they may be named as suggested.

Can you send me a few hundred botanical  
cards? Have nearly run out. (Of course) send  
them at my expense. Have not commenced  
naming plants for Ann Arbor. Will see if you  
have cards, first.

  
J. G. Lemmon,  
Sierra Valley, Cal.,  
Amateur Botanist, Collector in Natural History,  
(AND DEALER IN)  
SEEDS, BULBS and ROOTS of Rare California Plants.

Webster - Lake, Cal., Jan 27<sup>th</sup> 1875.

Dear Mr. Dr. Gray,

Your "Contributions" by Lady Snow - also Express  
at last received. Thanks,  
grateful thanks! I thank you also,  
in behalf of  
for my friends whom you have hon-  
ored - Prof. Case, Dr. Webber & Mrs Ames,

Glad there was enough of some  
of my specimens for complete description.

Will search for seed of Critchium  
Kingi? next season, and get more  
of the new Arabis also seed  
Dilene (No. 433, 454 & 461) Was not aware

that you located by Counties and omitted  
statements, <sup>hence</sup> a slight error in location  
of Castle Peak. It is <sup>not</sup> in "Sierra Co."  
but <sup>only</sup> Nevada, 6 miles North of C. P. R. R.  
and often visited by botanists and other savants.

Think "St. Cloud" in desc. of Staph.  
yca Bot. should be 1/48 Clouet's,  
(Pardon if not pertinent.) When you  
publish Dikora Cal., please give in  
title of Dr. D. S. Webber, as there is  
another. Glad to see Prof. Bolander's  
name affixed to so interesting a shrub.

Another sharp eyed observer Rev. E. L.  
Greene! In time to help. I should  
like to know what season Dr. An-  
derson botanized in the Basin. so  
that I may visit at others too.

Your directions, corroborated by discovery,  
indicate the objective point for this year.

Sent Cynoglossum occidentale to Bol-  
ander with Corydalis Caseana 2 1/2 years  
ago. Your Postal Card receipting my  
"Trip to Yosemite" arrived. You say noth-  
ing of the distributing. Hope it did  
not take much of your precious time, &  
that the varieties in the plants afforded a

slight compensation. Further, than this,  
my kind and generous benefactor, I  
wish you to retain one half of the  
proceeds derived from their sale. It is  
but little to offer for so great services.  
but I beg you to accept the moiety  
with my kindest regards.

I have a score of questions in direct  
forms written, but the last pamphlet  
with such full notes on difficult Orders  
answers so many, that I suppress all  
but two. 1. Two of my duplicates are  
(my error) marked Astragalus idanthus. Does not  
the proper one have purple striped, curved,  
bough pods? The other one grows in  
Indian val, and has (from memory,) yellow,  
nearly straight, softer, long pods; - A. Webberi?  
2. Sent also to Prof. Bolander with the <sup>named</sup> others,  
an Loris (numbered 130.) & forwarded to you,  
and you reported, "Probably new." Has it ever  
been re-discovered? Perhaps in Big Meadows.

*Phacelia procera*, properly named! I am  
so puzzled over it, never saw but one  
plant, that growing in the fields of  
the once populous Meadow Lake City, 16  
miles south of North Lake.

A letter from a mixed correspondent, Geo.  
C. Carlson of the American Agriculturist, asks  
for <sup>more</sup> *Silene* <sup>seeds</sup> *floribunda*. He says the bot.  
of Flora N. Y., my "wind fall" is such a  
rarity that many a man would give  
\$20,00 for it! Really, what a treasure I  
have held ungrudgingly, thanks to Congdon!

It seems Mr Carlson is quite a genius  
at determinations, and is associated with  
Thurber the authority on *Gramineae*. I  
never shall be fully aware, in this life, of the  
eminence of distant correspondents,

"When think all alone, up here in the  
clouds, what a great change has occurred,  
in my life and feelings, For 10 years, except  
the past few months, I have longed to die,  
you with an avenue of usefulness opened up  
before me. I fear that prison poison is  
latent in my brain that I cannot rise,  
"I am vain," "Ring out the old," &c. &c. I have  
lived these 10 years to be instrumental  
in gaining scientific immortality for my  
dear friends, and in advancing knowledge, enough!

Though I have plenty of paper now, yet  
I have the habit of brevity formed, pardon me,  
Brevity I don't mean levity. Too well I  
appreciate the eminence of the person addressed  
for that. And now, profoundly gratified for  
all your numerous favors in the past, deeply  
affected by the intimations for the future, and  
motivated by reflecting upon my unworthiness, I  
pledge you the service of the best of my life &  
remains, with profound respect  
Yours very sincerely, P. G. Erwin

Jan. 28th

The mail has arrived  
and oh, such a lot, and so good!  
Prof. Dargent heard from, I am forgiven  
and my meanness rewarded by a large  
bank check! The generous soul. His  
brief letters in the fall did not <sup>imagine</sup>  
or give me ~~any~~ <sup>any</sup> idea of his kindness,  
hence I misunderstood, & mistreated, the  
before is burnt into my memory,

Two two cards and "square" letter  
are received, but the book, not yet,  
Every favor from you adds to the  
munificence of the past and should  
deepen my gratitude, I am glad that  
you honored me by perusal of my  
"Deenes," and astounded that one of  
my principal statements should be  
so grossly incorrect. How could  
John Perry of the Calaveras grove,  
help out the common opinion with  
his sober tongue? Your question "Did  
you count the rings?" is so good, Ha. ha!

No. Nobody does, it appears. Must  
take the trouble to prove all I can in  
future. 'Tis not enough that you  
have said of my writings "There  
are rays and artistic," a high  
reputation, truly, but <sup>fairly</sup> ~~not~~  
praise indeed, compared with the  
qualities which I myself truthful  
and interesting.

I have found the owner of 1<sup>st</sup> vol. Flora  
of A. T. so kindly, sent me. It  
is a <sup>of and</sup> ~~friend~~ <sup>imprisoned</sup> by Joseph E.  
Ward of P. P. It is to be returned  
on call. Was not aware of its  
value, so now must improve time.

Shall be just fixed when that  
son's Bot. Lib. arrives. You need  
not send any more Tribune, except  
your articles, as I have now ten  
times as much work as I can do.  
So great was the change between  
winning & shopping and this

sitting & reading that I became  
sick, weak as a bear in winter,  
and had to go out on the snow  
banks & exercise, in the cold. My  
hours with the books & flowers are  
those of the evening, principally.

Sorry that you will not be compli-  
mented by a flower of Sierra Valley, my  
adopted home. Your modest little  
Grayia is just over the border, in  
the Basin. I will certainly secure &  
cultivate that, & what other is  
it? By the way it has often  
occurred to me that all this naming  
of flowers after persons is but a  
temporary designation, inevitably to be  
changed. Every department of bot. Sci-  
ence is loaded with it, but don't  
you opine that a school of Science  
will arise, prune out all proper  
names and insist upon characteristic  
appellations? Of course, I hope not.

long, and written much, but I  
could not get around to you and  
a score of other interesting botani-  
cal correspondents.

But I wish to retain your  
friendship, and the tremendous pres-  
sure on me Californian will be lifted  
when the Sierra Cal begins  
to appear, then I will have  
time to look at eastern plants, and  
I will be glad to receive them  
by the friendly and unique man-  
ner of exchange.

God bless these two explanations  
of our growing neglect!

I hope so, surely, for most cer-  
tainly I wish to retain you and  
enjoy your long, excellent, interesting  
letters. By the way, I have  
told you that the little plant I see  
now as *Lamproloma elegans* is differently  
named by Dr. Gray! I see above 'max Prof.  
Henderson's determination. The Dr. calls it  
*Doctorella axonopoda*.

I go down among the growing plants  
in a few days, and commence a diligent  
hunt, I propose to collect a premiere  
case of rarities for the Centennial.

Hurriedly but sincerely

Yours &c, J. P. Penman

Sierra Valley, Sierra Co., Cal.,  
March, 11th 1875,

Gen. C. Savenport,  
Boston

My dear Sir,

I often thought of you this winter,  
and as often tried to find time  
to make up and forward a small  
collection of our rarest alpine  
genus, but could not.

During the last days of Oct.,  
I climbed up to this solitary  
retreat — 12,000 ft. above the sea, a mile  
from any inhabitant — and here  
all alone, except the sweet com-  
père of the flowers, I have been  
arranging, classifying, studying,  
and naming duplicates of my  
collection the bulk of which was

sent to Dr. Gray, last fall,  
I have been very busy,  
indeed to take care of the hotel  
<sup>admission</sup> buildings, entrusted to me, to  
household my wood, and food  
was quite a task, and left me  
not as much time as I would  
wish spare work among the flowers.  
You have no idea, perhaps,  
how little we know of Cal. flora,

Our citizens have sought only  
for wealth for the few brief years  
since <sup>the</sup> acquisition of Cal. At  
first only gold, then silver &  
cinnabar. Our ships & apparels  
are still worthless, so how can  
we be expected to take interest in  
mere flowers?

But good Dr. Gray proposes to  
direct our mercenary thoughts into  
a new channel. He is laboring  
with almost unexampled diligence  
and self-sacrifice, to give us a

California Flora. Those of us  
at an ultra house didn't meet the  
last interest in Botany, and have  
collected specimens, and of course  
improved willingly, into the service  
and are bracing every energy to  
assist the venerable friend of our  
amiable science in this contest,  
without which he assures us, he  
would be discouraged and bound to  
yield the thankless task,

It is to be the better enabled  
to collect and know what and  
where, that I have exiled my  
self from a pleasant home and  
fond friends to the lofty peaks  
in a dreary snow field 6 feet  
deep, where I might have room  
to spread flowers, books, papers &c,  
where I chose, and arrange, read  
and study at will, molesting no  
one and unmolested,

I have worked hard, studied

Webber Lake, Cal, Mar 23. 75,

My dear Dr Gray,

I mail you today the Index to my duplicate books of mountain plants. It may possibly be of use to you, in determining locality &c, as we have talked, Then it ~~may~~ <sup>will</sup> be <sup>great</sup> of use to me if you have time to glance through it and mark those plants desirable or otherwise for collection this season.

Of course I do not know what are good things and what you have in superabundance.

If not asking too much please indicate in the briefest manner by markings the points about and



it may save me many hours of work which may be diverted to profitable use.

I mean that your next winter collection shall be all "good things". I fear that half of the other was mere rubbish.

A long letter from Mr Bobb is just in. I am rejoiced to be assured that he accepts my plea of ignorance, has buckled on the harness again and already has determined much in regard to Cal. Salices.

I have scoured the country here about, dug through the snow and obtained scions of willows, which I have wrapped in your gutta-percha cloth and forwarded to him. No sp. is scarce here at any time.

I go down to Sierra valley in a few days, and will there collect and forward.

Hear that the early flowers of Sierra have been nipped. The coldest weather of the winter is now in middle March. & we have a delightful climate!

Wide Emigration circulars.

A heavy wind now blowing for 2 days is sure to bring a heavy fall of snow here and of rain in the valley. Very fortunate. All dried up there.

Hastily, but very sincerely

Yours &c,

J. S. Remmon,

I have been thinking of you very much  
and of the time I spent with you in the  
last year, for I had a great deal of  
work to do and I was very busy and  
did not have much time to spare.

I have been thinking of you very much  
and of the time I spent with you in the  
last year, for I had a great deal of  
work to do and I was very busy and  
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and of the time I spent with you in the  
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work to do and I was very busy and  
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I have been thinking of you very much  
and of the time I spent with you in the  
last year, for I had a great deal of  
work to do and I was very busy and  
did not have much time to spare.

Very respectfully,

Yours sincerely,

J. A. Common,

Dear Sir,  
April 10, 1885,

Dear Sir,

I have been thinking of you very much  
and of the time I spent with you in the  
last year, for I had a great deal of  
work to do and I was very busy and  
did not have much time to spare.



not-seen before.

Interesting letters reach me after a long delay, from Mr. Cawley concerning Wilmington, and from Mrs. Austin who has diligently watched and experimented with the plants this season. Her devotion to our amiable science is praise worthy and valuable.

I heartily commend her for honors. She is a lady of Kentucky birth and schooling, but who escaped from home by force during the war and fled North that she might enjoy freedom of opinion and complete her common school education. She has taught school - much of the time for ten years. has been married twice has three fine, intelligent children. the eldest already following her mother's profession of teaching. She is a most estimable lady in all

Sierra Valley, Cal.,  
May 12<sup>th</sup> 1885;

My dear Mr. Gay,

Learning that you had gone South some weeks ago to recuperate your health, I was filled with the gravest apprehensions. but the last of Prof. Geo. Vasey's letters all written at your instance, my venerable benefactor — states that you have returned with health much improved. Grateful thanks to the Giver of all good! May He graciously spare you to enjoy the rewards of a life so well spent. But my dear Dr., don't tempt the grim monster by any more of over-work for our young, giddy, distracted, unappreciative state.

Send the Cal. Flow paper to other  
and younger minds. Surely the  
work you have done is the most  
tedious and important — even the  
writing up of the Composite  
alone is enough to ask of any  
one mortal. Of course I  
address to you familiarly as your  
nearest & greatest pupil, but one  
who has learned to love you with  
the best, most learned of your noble  
apostles.

I have been on the wing since Apr.  
10<sup>th</sup> gathering young plants & flowers.

The plants sent to Prof. Sargent from  
time to time, have been stopped &  
held by the break in the U. S. R. R.

Of the flowers I think I have  
pretty well filled the gap of East-  
Spring's absence.

A letter came to me early from  
Geo. Vasey soliciting my aid in  
collecting specimens of trees & shrubs  
& general flora, but my letter ac-  
cepting was delayed 17 days and

in the mean time he has ar-  
ranged to send out his son to  
collect in the great valleys.

Of course there is enough  
for both and for a half dozen  
more, but there is but a small  
appropriation made for the work.

I will work away with usual  
diligence, any way, believing that  
he will do as well as he can  
by me. I send off seeds to  
several parties to-day, and kind  
to Prof. Sargent; — Ranunculus Andersoni.

I also send a large package of  
willows to Mr. Peck and a small  
lot of plants to you to determine  
at your leisure, or to turn over  
to Mr. Watson. I have written the  
latter thanking him for pamphlet  
"Contributions" and for the honor con-  
ferred with the new silent.

Most of the flowers I send you  
now have not been before collected  
by me. A few are sent for the  
more sure identification of my du-  
plicates, and a few I have

that that noble word conveys, &  
is so regarded by all who know  
her, & she is quite in  
the habit of writing her name  
simply as "Mrs Austin" I will  
here give her name with initials:-

Mrs. R. M. Austin.

<sup>Butterfly valley, Glencoe Co.</sup>  
I must recommend her as

two more during the summer,  
honest and worthy men, pioneers  
in every good work, and only  
second to Prof. Case & Dr. Webber  
in their kindness to me.

I have been improving the accession  
of a slight shower last night by  
looking and sending away roots,  
seeds, and writing a dozen letters.  
(Am very tired and nervous, &  
please excuse incoherence and  
scribbling.) Again expressing grati-  
tude for your recovery, I remain  
my dear Dr, sincerely

Yours with the warmest regards  
J. S. Burrows.

then, after sending new things to you,  
will at last get off the Pyramid Lake  
and the whole party will reach  
home tonight and so before, the  
house was so busy getting into place,  
at the dinner, Made a fire call, and  
dining in Mr. Bell.

Don't forget to obey your thoughtful injunction to "deal only with weedy (for Ornamental plants) and for Ray!"

Howe's seeds plants of Brazil apparently  
doing well in door-yard of Dr. Webber. By  
the way new mines have been found near  
his lake which will give him increased  
custom this season - good.

Should I have any new plants in my  
Collection, and you will be kind enough to honor  
more of my friends, please let me know,  
and you shall have biographies. For myself  
I would be overjoyed with the honor of a  
pretty plant desirable for cultivation.

I enclose a slip "Suna Valley & some of its  
new plants." in hopes that you may find that  
I improve on description.

As you looked upon Andersonville and its  
sad monuments of cruelty, the hateful stock  
adevised to view as I write and my "hole,"  
nearly in its center.

Yours very sincerely

H. L. Leman.

(1) wife, in 1843  
 N. 3 1/2 1/2 1/2

Flow passed was  
to be overtaken by your renewed  
force of the 1st inst! Every  
botanist in the land will rejoice in  
your restored health, 'I see you'  
'I see you' Flow-kind of you

Owing to the great liberality of Prof  
Sargent I am supplied with means  
sufficient for the present, so you can  
take your time about forwarding, but  
before doing so my dear Dr. please de-  
duct one vol. for your great labor  
in distributing, as I have requested.





Your drive is invaluable on  
such excursions, my dear Mr. I  
feel so grateful. It is now  
12 M. I have not time to pre-  
pare "forgets of new things" for  
you. Will try to, on return.

Have letter direct from Carl Lenné  
Sandhurst, Victoria, Australia, desiring  
List & prices of Conifer seed. He  
was to-night before returning, giving  
approximate prices and guaranteeing  
satisfaction. He offers to let me draw  
on his brother Anton Lenné of Pouchet  
of R. S. for pay. "Safe, way is it  
not?" The (Carl) reports seeing a  
*Picea canadensis* 20 feet high that  
was 60 & 70 years old! He wants  
seed of hardy & robust conifers for  
the lately opened country by the  
"Liberal" (Sandhurst).

He anticipates a steady and important  
annual trade with me.

Mr. Thompson also writes that some  
of my seeds are thriving and sends list of  
desiderata.

With due regards.

Yours sincerely

J. G. Lemmon.

J. G. Lemmon,  
Sierra Valley, Cal.,  
Amateur Botanist, Collector in Natural History,  
AND DEALER IN  
SEEDS, BULBS and ROOTS of Rare California Plants.

Sierra Valley, California, May 25<sup>th</sup> 1876

My dear Dr.

Just on the eve of  
a tour of perhaps 3 weeks out in  
the desert to Pyramid Lake and  
beyond, then circling north to  
Inselville. Thence through Noble's  
Pass to Big Meadows (northern part  
of Plumas Co.) thence southward  
to Indian val. Butterfly, American &  
Mohawk. To Sierra & home again.

I am fortunately prevailed upon  
my bosom friend Prof. Cass to ac-  
company me. I can get so  
much more, with some one to  
drive, while I am beating through  
the springy places or scaling the

rocks out of the range of sight.

I have promised him half of the profits and half of the honor at we achieve any, - but in justice to him, let me assure you that he does not require either of me,

He hesitated only because he had more duties to do, - he thinks. We expect the desert of alkali to be a trying place but the mountains, after will be the more delightful.

I am very sorry that my "Index" sent you & Prof. Sargent's not yet returned. It would be so helpful with your desiderata marked therein. I have looked for it at every return home, but I suppose your illness and departure put it out of sight. Never mind I'll do the best I can, and collect largely of what is rare to me.

I am better and better prepared with each chapter of experience, for making good specimens, but have thus far worked alone - or with the valuable assistance of <sup>sister and</sup> my aged mother only. All the other little hands promised me last fall, have been withdrawn. But with brother Cass, I have an active, intelligent assistant and most genial companion - for the dreary parts of the journey. He promises for this trip only, I then must resemble his school-room.

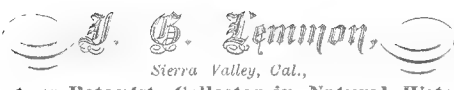
I have heard much of a large, beautiful, sweet-scented plant which flowers at this season in certain localities of the basin. I hope to see it soon. We are prepared to bring several hundred pounds of plants home, this time.

round trip, was about 350 miles, and required just 2 weeks. Boarding our selves, the expenses were light, while we were constantly at work. - Case caring for <sup>physical</sup> wants, -- and I for the ponies, and flowers. My friend Larson goes next time, Case being required in the school, Can't get anything without help to drive a wagon while I rumble & search.

It has required all the day, with the trained assistance of my aged mother & skillful sister to change papers on the Rev. Collection. There are 2 large bales, I found 30 or more species new to me, including 2 more *Astragalus*, and unnumbered *Eriogonums*.

At the Pinte Agency we were kindly received and given some useful items upon Indian botany, but the thought that I ought to be in Indian val, urged me on west. Near the reservation also we met a party of scientific gentlemen connected with the Bot. Board of Science, who tried to induce me to join them; but in vain, I am firmly bound to your & Vasey, -- a determination for which they at last respected me, and heartily wished me every success in my chosen pursuit.

As my plants are still green, Dr. and I cannot send "foretaster," you may expect a few of the smallest sorts just before my start <sup>through Indian val.</sup> - day after tomorrow. I will take another sheet, and note a few of the finds.

  
Sierra Valley, Cal., June 8th 1876.

to visit north  
wind for several  
days, but, is  
just drying up  
the flowers as  
well as fruit.  
Flowers blushing  
and falling,  
seeds faint.

My dear Pa,

I am again, after a long, tedious but most successful tour through the finest floral region of Nevada. Find your kind favor and report of May 21<sup>st</sup> awaiting me. Glad to learn that No 813; = (533) is the *Ranunculus Lemmonii*, for oddly enough, it has escaped me for a year but is very abundant this season & is large and showy. The early flowers were <sup>often</sup>  $\frac{1}{2}$  inches across, and the clump of roots, leaves &c. often would fill a large basket. I have large specimens for the distribution. The little *Actispermum* dried up

weeks ago, but I secured a few  
(but not to be found to-day)  
seed. I have more to ripen speci-

mens of 1894, *Eriogonum Hingei*,  
for the list. Will cheerfully

get fuller specimens of *Populus* as  
you request.

My friend John Garner, by  
request attends to my business in  
my absence and I see has ~~at~~  
~~not~~ requested you to send draft  
for gold on A. G. All right,

I am very tired my dear Dr,  
but still so full of joy at the  
success of my trip that I must  
give you a few notes of it.

I <sup>a</sup>untoldly persuaded Charles Case  
to accompany me - agreeing to give  
him \$100. per month for his assistance  
and we started out well  
equipped for a 3 weeks trip. We  
passed out of Sierra Valley though.

Beckworth & up to Long val, thence  
north to Dry val (near Honey Lake) thence  
east through a chain of valleys to  
Pyramid Lake. Here we intended  
to turn north again across the  
great, 300-mile desert; then turn  
westward and pass via Hawthorne  
& Big Meadows to Indian valley &  
home, but so large had our  
load become, that, though we  
walked outside, yet our ponies  
could barely drag our trophies, &  
we turned back from the desert  
on a level route home,  
to Pyramid, spanned its long west  
shore <sup>over huge basaltic</sup>, visited the Piute Reservation  
at the mouth of the Truckee, then  
threaded for 3 days the beau-  
tiful river past Bradworth, Reno,  
and Verdi, to a point 35 miles  
south of Sierra valley, which we  
reached at dark last night in a  
fearful snow storm! The

Finds. First in Sierra val. near N.  
end, fine plants at the water. having Qui-  
ridium, taken for O. lemnisc., which is  
very diff. from the same form, (it has  
good specimens of hale,) (in sandy banks  
abundant of Andropogon scoparius, with  
some, beautiful plants, of Abutilon trich-  
otum, Erythronium americanum, Helianthus ter-  
restris, Senecio lugens &

A few miles east of Belleville I  
saw astragalus came in, a number  
being found in about every valley  
entered the state. The A. idahoensis  
(or the one I have marked as such,  
the species with tough, spotted, curved pods  
continues throughout the border, and  
the A. lentiginosa came in, in  
places far remote. A tall,  
small leaved, straight-podded one appears  
in Big val. a bunch of long, &  
a little, purple stalked one in  
Winemuck val. (Perhaps I had  
better, with the old names, now,  
until I can send "herbaries". Then  
describe them by numbers).

One of the best finds I must  
state of, was the last thing found

on the Truckee banks, near Reno,  
It is a large (Euthera), long-  
~~stiff~~, large leaved, acaulescent,  
white-flowered, opening in the evening.

It will require 3 weeks to dry the  
large specimens. This and the sweet-  
scented *Ch. halimifolia* are worthy of  
cultivation. Your *G. ayia*, sporting  
many gay colors, ~~times the road~~ <sup>carries the</sup> nearly  
all the way, far eclipsing its relations  
forming the principal shrubbery of the  
great desert; of Nev.

The shore of Pyramid lake is  
bordered for one or more rods all  
around, with a robust *Heliotrope* of  
yellow and purple varieties, with dense  
masses of *Suaeda* plant, with here & there *Antennaria*.

On the shore of the great alkali des-  
ert, grow two species of *Salicornia* - one  
a tiny annual! The desert <sup>begin</sup> ought  
to be thoroughly explored, for it is pe-  
culiarly isolated, but we ~~are~~ <sup>were</sup> so beset  
with magnitos, and salivated with the  
alkaline waters that we had to retreat  
on the eve of the second day. The  
large vol. of Pyramid, ~~occupied~~ <sup>occupied</sup> sand  
by the half-civilized Pinks, is nearly as  
interesting.

Am. in mind and also suffering a billions  
disorder, to-day - so please excuse all defects.

Very respectfully & sincerely

Yours, J. S. Semmon,

of my loss so I am by you is new, and  
cautions great diligence in the gathering  
of algae. The Survey Bulletin, I see, is  
a report from Eaton on my collections, and  
it is new, but previously discovered, so I  
lose that beauty. Believe me that I found  
it a fine collection, will see it soon.

I would any of my New Coll. prove me, please  
remember my ever helpful and deserving contacts,  
Prof. E. C. Case, and also Mrs. Austin who is  
working so hard over the Darlingtonia. Mrs.  
Austin reports her health and the character of her  
labors and the beauty of her collections, and  
I am sure that she is doing well, so long  
as she is.

Not at all, yesterday through the rain to  
Hobbs Lake, on the trail. Found the Dr. happy,  
and entertained by a few visitors from San Francisco.  
He is a very good host. Most of the plants in  
our little garden are dead, but they suffered  
from want of water. May be able to irrigate this  
season. I look now around him every so much  
that the Dr. may have to sell out, and find  
a quieter place. Expect to go with me to the  
Centennial. Sends his kindest regards to you.

An enthusiastic friend in St. Louis, Geo. Sagg-  
proposes grand things; an alpine garden, flowers for  
sale, books of dried specimens, small advertisements,  
but popular entertainment &c. I like his great &c.  
object to its course. I must not leave the Dr. now,  
except in winter. No word from Dr. Bolander for  
months. Great trouble, I fear.  
A letter from Carl Lenné, Dandhurst Australia, asks  
for list of trees & pledges trade. Am recommended to  
Mr. Lapham & Sons, Edinburgh. Yours sincerely, H. C. G. C.

June 1885. A heavy storm of rain  
continuing for three days at in-  
tervals, and not yet concluded, has  
bleached the farmers of this region  
but seriously interrupted my labors.  
Have had to bring all my New  
Coll. in shelter, and changed frequently  
but still fear that they will be dam-  
aged. Have made up a small  
package of the small specimens and  
will forward soon. Below is a few-

### Notes on the New Coll.

(Collected May 24<sup>th</sup> to June 10<sup>th</sup>, 1885.)

- No 819. High plateau, near Pyramid Lake,  
" 820 Salt ~~marsh~~ <sup>spring</sup>, near Atlatl <sup>valley of Pyramid</sup>, 20 miles,  
" 821 Sand hills, of Washoe Co. Nev.,  
" 822 " " open 15 inches high, <sup>scented</sup> stock-  
" 823 " " " large,  
" 824 Volcanic soil among <sup>near Pyramid L.</sup> boulders,  
" 825 Sand near S. L.,  
" 826 Volcanic soil ~~like~~ with No 826. Small size, <sup>flowers white</sup>  
" 827 Clay ridge with senecio <sup>val.</sup>, near S. L.,  
" 828 Sand hills " "  
" 829 Volcanic soil with 828

- 833 Common on flats.  
 834 Scattered from Long Vale to the Truckee,  
 835 Piute mts. vicinity of ... on sea val. Washoe Co, but few  
 836 ... localities in Washoe Co,  
 837 ... other places near, strong scentid.  
 838 " " " " on sand  
 839 Sierra val, & Nev. hills, with <sup>pretty</sup> ~~quite~~ <sup>aver</sup> ~~much~~ <sup>in</sup> ~~the~~ <sup>the</sup> ~~valley~~ <sup>valley</sup>,  
 840 ...   
 841 ...   
 842 North end Sierra val. in edge of a dam, A.  
 mass of roosting sterna 3 yards across, in wall plants  
 scattered in the edge of stream, This is the  
 same I once found so large near my home on alkali,  
 I & the vol. E. Lammont? Not any seed yet.  
 If desired will go and get seed, later.  
 843 Several points in Washoe Co, Out of flower, generally.  
 844 Nev. mts, com.  
 845 Wet flats, com.  
 846 " " " " " "  
 847 One point on side of great alkali desert, <sup>but up on sand</sup>  
 848 & 849 Pyramid l. & elsewhere,  
 850 & 851 "Gray's val" near st. l. & elsewhere,  
 852 & 853 Scattered.  
 854 High sandy bluffs, com.  
 855 An alkali flat near big desert, <sup>small</sup> ~~offensive~~  
 856 Gray's val & elsewhere,  
 857 " " " " " "  
 858 " " " " " "  
 859 " " " " " "  
 860 Sand hills, showy, after fall,  
 861 " " " " " "

The valley I call "Gray's" is a large  
 one between Wimmer-mora and Pyramid  
 and is antifully dotted with Grayia and  
 other shrubs that the name was at  
 once suggested. Most of this collection  
 was found in Washoe Co. Inquired  
 diligently for Mr. Stetch. No response.  
 Just before starting, I wrote to one of  
 the Rev. Commissioners stating intention of  
 staying in Nev. On return find a  
 letter saying "Glad of it, Will see if  
 you can be paid therefor." He, signed  
 J. H. ...  
 The next, specimens for ... including Negroes.  
 ... considers my plans  
 for making specimens to show size &c. for  
 ... and now raises the hope of re-  
 ward from \$100. to between \$200. & \$300.  
 He will try Congress for more, saying "If  
 you make a good show for us we will try to  
 do as much for you," which is certainly  
 very fair, and all I ask. He thinks we



1895 *Xyris*

On sulphur sod near a hot steam vent  
of solfataria, <sup>on side of</sup> ~~near~~ <sup>open</sup>,  
#

18960. *Polemonium viscosum*.

Summit of Lemmon's Peak - about  
12 miles west of Lopen & nearly as high,

(named by A. V. Kiddle, Drayton, & friends)

18963.

Side of Lemmon's Peak,

18968. *Ranunculus*

very small, in  
one locality. High valley, foot of Lopen,

18970.

Side of Lopen.

(18915)

The new & beautiful violet, you  
named for Prof. Case, was put into the  
Nevada Coll. for want of time to  
make up a package for Cal. plants.

It is a Californian, & found only in  
one locality as yet, Bohawk valley, near  
Sierra val, (10 miles,) on the side of a  
ravine overlooking the cold stream, where

grows the beautiful and fragrant *Corydalis*  
*Cosman*. I gathered the violet on a solitary  
excursion of 4 days early in spring. Prof. Case is willing  
to suggest a change of name. His name was  
pretty close, pioneer of our joint collection, and  
name the violet for me, that I may be connected  
with the plant. I am sure that I may be connected  
with this *Corydalis*. If you  
please and there is yet time, I will do it.

## Notes on the "New Plants" of Northern Nevada,

From Report of June 1878.

(Numbers 817 & 834,)

18818. *Astragalus*.

Found only in one locality. The  
S. W. border of the great northern Al-  
kali Desert. On drifting sands. (June 1878)

18829. *Scutellaria nana* Gray.

On the pass between Soda Lake val.  
& Winnemucca valley, Washoe Co.,  
May 21st

18861. *Eriogonum*.

On bluffs of Truckee river near Wads-  
worth. C. P. R. R. June 21st

18868. *Glenopetalon*.

(Only on one strong ravine in bluff  
of west shore of Pyramid lake. June 21st  
(I had to leave the drying of my books to  
my sister while I went to Lopen. I  
did not see the importance of having red  
papers. Hence I fear they are wanting.  
& send all my specimens, anew.)

No 875 Juncula Nevadaense. Watson,  
High, bald slope on several peaks of Nev.  
and California, from Sierra vol. to Lapen's Lake,

No 883, Thelipodium — two species,

The tallest (2 to 3 ft.) on points of  
hills around Gray's val, between Warm  
Spring valley & Pyramid lake, May 30<sup>th</sup>

The short, robust, plant I found  
growing in clefts of cement rocks  
produced up (salpulara) by action  
of heat on west shore Pyramid, May 31<sup>st</sup>

No 888 A large shrubby Crucifer 3 to  
8 feet high; branches numerous, in  
symmetrical order, main stem often  
3 to 4 inches through at base, <sup>Gray's valley & Pyramid valleys</sup> May 31<sup>st</sup>

No 895 Glozopetalum Nevadaense Gray  
One plant in a place, on sandy <sup>hills</sup>  
Long to Pyramid valleys, rare, May 30 to June 1,

No 909 Euphorbia

In one locality only, Bluffs of Truckee  
river between Pyramid & Goddard's June 4,

930 Eriodrynia spicata ?? This appeared  
very diff. <sup>growing in some locality</sup> from No 854. Taller, spindly,  
more  
canescent, later in blooming etc. Pyramid val,

Appendix to Nevada Coll,  
Aug. 23<sup>rd</sup> (Nos 935 to 950.)

No 938. Anisocoma ? (J. G. E.)

One locality, bluffs of Truckee river  
near Reno, June 6<sup>th</sup>

No 944 Chorizanthe ? (J. G. E.)

Minimucca val, Washoe Co., May 31<sup>st</sup>

No 946. A small borage, very singular

Gap between Long & Lake lake valleys, May 31<sup>st</sup>

No 948, "Southernwood"

Gray's valley,

May 31<sup>st</sup>

Notes on Alpine Plants,  
(Numbers 950 to 953.) <sup>Beck</sup> ~~Lapen's~~ <sup>Beck</sup>  
and his alpine neighbors, )

No 951, Lilia ? (J. G. E.)

Only on a small patch of decomposed  
scoria near summit of Lapen,

No 954 Anemone

One locality, Base of a rocky-faced  
Mts near Lapen,

Fls white, very beautiful,

July 18,

J. G. Lemmon,  
Sierra Valley, Cal.,  
Amateur Botanist, Collector in Natural History,  
AND DEALER IN  
SEEDS, BULBS and ROOTS of Rare California Plants.

Sierra Valley, Cal., June 16<sup>th</sup> 1873,

My dear Dr. Gray,

Your Card announcing the new Leptostemon and your admonitions to get better specimens, is rec<sup>d</sup>. Thanks, grateful thanks,

in consequence of your request to forward, I have delayed trips, dried out most of the Sev. Coll. and now forward specimens. Am off for a long tour this morning, so <sup>I can't</sup> ~~don't~~ stop to make notes. Should any of them ~~be~~ prove interesting, please indicate and I will describe them,

Which Leptostemon is new?

Many of the specimens now sent are not good - either too young or too old,

and I send along under the impression  
that they are so familiar to you.

as to be recognized in any stage.

The ~~Gramineae~~ I send to you.

Vasey as he has inquired so  
much about them and now as  
a food for me. If you wish  
them also, please indicate.

Weather for a week past, rainy  
& cold, very unusual. Fair now.  
Have been quite well. Billions.  
Must go any way, now. Have  
tired out Prof. Case. My new  
cousade is going, strong & enthusiastic,  
and I expect much of him.

Will be home in 2 weeks - perhaps -  
I hope to hear news of your good health &  
well. My friend Mr. Larsen is  
coming. Adieu

Very sincerely

Yours &c J. S. Sennow.

ascending 12 to 14 inches. One plant  
too large to keep weighed 4 lbs, Plant  
often with few or no pods, grows on  
hill-side, sand, Not abundant, First  
found in Sierra valley a year ago near  
Webber,

Very difficult making good specimens  
of general flora  
when gathering so many. Six to 10  
for Vesely and often as many more  
for you. Weather hot, favorable to  
drying but Ah the climbing under  
a boiling sun! Have dried out  
14 bales on this trip so far, about  
3 inches thick each, Harper's weekly in  
size, My comrade Mr Garsen very  
willing and useful.

Start anew in the morning for  
Lafayette peak via the "Big Spring" again.

Dr. Wood & party join us at Green-  
ville. Shall explore the summit  
more extensively than before. Expect  
the snow is light. & though it is  
early yet the top is bare.

Health good but am getting tired.  
Trying to go slow.

Yours sincerely. J. G. Lemmon

J. G. Lemmon,

Sierra Valley, Cal.

Amateur Botanist, Collector in Natural History.

AND DEALER IN

SEEDS, BULBS and ROOTS of Rare California Plants.

Butterfly val. Plumas Co., Cal., July 5<sup>th</sup> 1875.

My dear Dr,

Here and I delight-  
fully communing with the Dar-  
lingtonia, Drosera &c. of this singu-  
lar locality. Have been encamped  
for several days in the yard of Mrs  
Austin who shows us every <sup>kindness</sup> ~~attention~~ &  
is hard at work, <sup>&</sup> noting observations  
on the carnivora.

The leaves of Darlingtonia are nearly  
full grown and the hoods fast ex-  
panding. A watery fluid is found  
in all the leaves; even the youngest  
containing a few drops. By splitting them  
open its origin is plainly discovered, dewy  
drops studding all the lower portion of the  
tubes. Mrs Austin is positive that

the "white worms" (larva) <sup>were</sup> ~~was~~ found by her in leaves before the opening of the orifice.

I can find plenty in the open leaves or those that have been broken or pierced <sup>but believe</sup> ~~suggest~~ that the young, unopened or uninjured leaves are destitute of larva.

This liquid secreted by the inner surface of the leaves is scarcely distinguished from pure water. Flies & other insects are not attracted to it, and are not injured by imbibing it. We secured some for experiments but as I am on a long & tedious journey I did not provide for bottling and forwarding.

No "saccharine secretion" on the hood or lamina yet. Think it was in Sept or near it that I detected it.

The plant is in excellent condition this season. No frost. Fine promise of seed. Have collected some fine specimens of the infant plants showing the "open-mouthed, saracenia leaf" so remarkable. Would

you like some? A few enclosed.

Mrs Austin is very enthusiastic and hard at work. She will forward her observations to Mr Canby who directs all her researches.

The Drosera rotundifolia here, is very thrifty and active in catching insects. We have been feeding it with various substances animal & vegetable. Are surprised to find the viscid hairs closing upon lettuce, rice, potato & nearly as well as flesh and sugar.

Wrote you from Greenville lately giving change of course &c. Since writing have collected the other new astragalus - the one you called Webberi. Grows on the south side of Indian val. and between it and the (Butterfly) valley.

Small branch & some pods enclosed. Have large specimens in full pod & a few flowering stems gathered early by Mrs. Ames. The plant, <sup>is</sup> large, <sup>is</sup> stout, stems at first prostrate, at length

Sierra Valley, Cal.

**Amateur Botanist, Collector in Natural History.**

AND DEALER IN

SEEDS, BULBS and ROOTS of Rare California Plants.

Cal., 187





Have gathered a large quantity of the Gramineae, (shall I send them to you or to Wasey, direct?)

Can't find the Chelanthus Cooperi.  
Think now it is in Lawrenceville Cultus.

Will try for it if possible this fall.

Made a call on Darlingtonia on my return and, with a party of friends selected the saccharine secretion on the lamina, both sides, (I saved specimens, for Canby, (or you, if desired,)

Among letters in waiting, are inquiries from Dr. Englemann on Abies, Dr. Parry on the same, & Dr. Heck asking for exchange of Austrian plants.

Have been often attacked with cholera morbus on late trip; and have a large varicella <sup>vein</sup> on right calf. Perhaps I am going to fail. Mean to fall in full harness if fall I must.

Assured by the countenance and assistance of yourself, Prof Sargent and Dr Canby I am most fortunate.

J. G. Lemmon,

Sierra Valley, Cal.

Amateur Botanist, Collector in Natural History,  
AND DEALER IN

SEEDS, BULBS and ROOTS of Rare California Plants.

Sierra Valley, Cal., Aug. 3<sup>rd</sup> 1874.

My dear Dr,

Home again,  
Lots of letters, lots of work, and  
courage in plenty!

Have been catching up, and  
answering new correspondents, dry-  
ing out, uprooting and putting up  
flowers for you. Two large  
packages. Found many fa-  
vors awaiting me from you.

Money! botanical paper, reports  
honors, &c. Thanks, thanks, (en-  
ly these can be my present  
return, I hardly know how  
to put in the rest of the season.

Points of interest in various di-  
rections. Big trees, first, then

some more peaks, they are so  
plenty in the mountains I dread  
the long, flowerless ride south  
to Calaveras, 120 miles,

Go to-morrow to Webber  
Lake & the next day to Crest. Peak  
for its rare plants, A short trip,

There are many things I  
want to talk about, Will have  
to be brief or they will be omitted,

The Botanical Paper, too bad  
that none could be found elsewhere,  
As before I shall use it carefully,

Flowers just sent you, There  
are two packages One contains  
~~three~~ <sup>three</sup> distinct lots; <sup>viz</sup> an Appendix  
to Rev. Coll, a lot of old  
ones, sent for various reasons and  
with the old numbers in parentheses,  
and a few from the summits of  
Capitan and his neighbors,

All this rest are from Plumas Co,  
mostly in high valleys,

Wow! Nine new species in  
the Rev. Coll! How is that?

I think my eyes have become  
very sharp, Lost several small  
plants out of the paper in the  
mail, Not important, Will  
enclose a few notes on the  
new ones, May be helpful,  
at least to locate, Don't see  
into the matter of the Criticism  
family, Guess the new one is given up,  
Very diff! from the large one on  
sand, Hoped to find a plant  
of Rev, named for Prof. Case, It  
is so helpful, and good, Will pro-  
pose a change in name of the new  
Viola, to suit us both better,

Should any new species occur  
in my last Coll, please name  
one for my young friend and apt,  
John Leaven, He has worked well  
and willingly, & will in future,

# Big Trees of Calaveras, *Sequoia gigantea*.

The venerable "Mother," standing but-  
stripped of bark is actually 78 feet  
around (26 feet-through, 4 feet-above ground,  
of a <sup>of a</sup> <sup>other</sup> <sup>tree</sup> which was cut in 1853,

The stump, with a house on it is  
25 feet in dia. without bark; outside of  
house i.e. base of tree, 87 feet.

No. of Rings (Age,) 1<sup>st</sup> Count, 1,260

" " " " 2<sup>nd</sup> " 1,250

" " " " 3<sup>rd</sup> " 1,268.

Fallen Trees—old generation.

"Hercules" is 285 feet long dia. at  
25 feet from roots, 16 feet, Rings 1,362.

"Leviathan" is 270 feet long dia-  
across roots, 32 feet; across body 14 feet.

In South Grove. (Standing trees.)

1<sup>st</sup> Tree "Hotel" circuit 81 feet

2<sup>nd</sup> " " "Livery Stable" (22 horses) " 84 "

3<sup>rd</sup> " " "Dropper Smith's Cabin" " 80 "

# Estimated Age of the

"Father of the Forest," Mammoth grove.  
through whose length so many have ridden 150 feet,  
...ing from a knot-hole.

The tree being fallen broken and  
turned out - afforded exposed cross sections  
for counting rings. I counted in three  
places one foot of grains, each half  
way between heart and bark,

## One Foot of Rings,

1 <sup>st</sup>	Count,	66 feet from roots,	232 rings.
2 <sup>nd</sup>	"	210 " " "	254 "
3 <sup>rd</sup>	"	300 " " "	276 "

## Diameters,

Diameter (without bark,)	1 <sup>st</sup> place,	12 feet.
"	" " 2 <sup>nd</sup> "	11 "
"	" " 3 <sup>rd</sup> "	10 "

## Estimated Age of Rings (Age.)

232 x 6ft (semi-diameter at 1 <sup>st</sup> place.)	=	1,392
254 x 5 1/2 "	" 2 <sup>nd</sup> "	= 1,397
276 x 5 "	" 3 <sup>rd</sup> "	= 1,380
Average		1,371 1/2 rings.

J. G. Lemmon,

Sierra Valley, Cal.

Amateur Botanist, Collector in Natural History.

AND DEALER IN

SEEDS, BULBS and ROOTS of Rare California Plants.

Sierra Valley, Cal., Aug. 24 1875.

Geo. E. Cavenford,

My dear Sir, Your

esteemed favor of July 13<sup>th</sup>  
awaited my return from a six  
weeks exploration of Hooper's Lake  
and his alpine neighbors.

Had a very successful excursion  
coming home loaded down with  
dried specimens, some of them  
very rare and perhaps some of  
them new.

A previous exploration of  
Pyramid Lake and vicinity <sup>in Nov.</sup>  
resulted in the finding of nine  
new plants (see Dr. Gray reports)  
in nine days.

Am very tired and often  
sick; nearly broken down,

Must rest a few days  
at Long-bay Castle and then make  
around Wether lake! then off  
for the Big Trees, 100 miles.

"Wish you could be with  
me on this long journey, the  
sheep are loaded in the mountains  
so much that often days pass  
without seeing a green leaf, and  
a such brief especially agreeable  
company would be just the thing.

Thank you very kindly for  
all your compliments; I do not  
deserve the half of them.

You ask about the Chilanthus  
Cooperi of Eaton, Unfortunately  
I cannot find the locality again  
at its growth; now think it is to  
be found on Downieville Buttes, up  
which I climbed some years ago.

All your ferns presented to  
the Kap, Hoot, Joe!! What  
a valuable gift!

Yes, I should like well to  
look at "119 species & 24 varieties  
of ferns" but could only glance.  
I am too busy for anything  
but collecting until after the first of  
the Centennial is off. I have  
ferns from you and flowers from  
many others that have not yet  
been even opened for admiration.  
Hence I cannot exchange, am  
binding every energy to have this  
wonderful country represented, botanically.

Expect to retreat again to Wether  
lake next winter when you may  
expect to hear from me. Your  
letters are just the kind of friendly-  
chatty ones I most love, but I have  
to neglect you for the prosecution of  
our amiable science.  
Yours sincerely,  
J. D. S. Munson.

Specimens of wood bark &c. as well as  
cones, bracts & seeds. The latter articles  
I collected in quantities, shooting out  
sprays of blooming twigs from the high  
crowns, with my revolver. Letter  
from Prof. Vasey which reached me  
there informed me that he thought  
the state would send a section of the  
"Gen. Geol." which would illustrate wood &  
bark. I was glad of this as I could  
then load with desiderata, content  
to walk beside <sup>my</sup> wagon up the long  
mountain roads through the clouds  
of sheep dust.

In Carson val., the Indians were  
just going out of the towns by the  
hundreds to harvest the pine nuts of  
their favorite tree - Pinus monophylla  
growing only on the mountains on  
the east of the great valley. I se-  
cured some good specimens by making a  
visit to "Pine Nut valley", called "Zah-  
gunn" by the Washoes, - their name for  
the tree. Obtained their names  
for many other plants.

*J. G. Lemmon,*  
Sierra Valley, Cal.  
Amateur Botanist, Collector in Natural History,  
AND DEALER IN  
SEEDS, BULBS and ROOTS of Rare California Plants.

Sierra Valley Cal., Sept. 20 1875.

My dear Dr. Gray,

I have again  
tired, & nearly blind. The "Big  
Tree" trip was terrible! but not  
devoid of rich results. I  
brought away specimens of trees  
and rare shrubs in the vicinity,  
sending a box of 43 species  
from Carson; another of 12  
larger ones from Reno.

But Al. the dust raised by  
40,000 sheep moving over the  
road three days from Big  
Trees to Silver Mt and the  
alkali clouds for another 3  
days in Carson Valley!

My mother, whom fortunately  
I took along as far as Carson,

had to drive me home.

Here for four days I could not read a letter or work at all, Cool weather and shades have cured me right up. Have been "writing up" reserving the best for the best.

First I congratulate you on your good health and ability to go on with "Bot. Calif."; also upon securing such good assistants.

How soon may we look for the completed volume?

Next allow me to thank you most heartily for the honors conferred upon me and my friend Harsen in the full reports of my seedings, which reports I found awaiting.

On another sheet I will write a few notes concerning the locality of the new & interesting things. They proved quite interesting I see, — and the same region

holds more! O, for the power to be in many places at once! Do you think the Surprise valley & Goose Lake region equally unexplored? But that I was requested by <sup>Prof</sup> Masey to "collect all the trees & shrubs of the Sierras" I should have canvassed those for northern valleys.

I made a thorough examination of the "Big Trees" & will enclose a statement, as it may possibly be of use. Then I went down the Stanislaus in the vain hunt for Toreya Cal. It had all been destroyed at the point I reached, and misdirection prevented success at other points.

But I brought away many large specimens of shrubs <sup>also the Pinus Abies</sup> found there, species that are wanting or but dwarfs here north. Then I did not know but that I must get



(off) to narrow the Stoffer Creek  
to get sections. docks. transverse  
specimens <sup>and seeds</sup> of *sinus monticola*  
*Atriplex* *arabialis* & *grandis*, and  
*pattoniana* then <sup>to</sup>  
at <sup>the</sup> <sup>same</sup> <sup>val</sup>, & <sup>into</sup> the <sup>for</sup>  
Hartingtonia, and like <sup>the</sup> <sup>val</sup>,  
Looks to do and little, <sup>the</sup> <sup>val</sup>,  
but coverage high, they <sup>are</sup>  
eyes gave me a fine <sup>val</sup>,  
I know about *Astragalus* *linifolius*?  
There are three large <sup>plants</sup> <sup>in</sup> <sup>the</sup>  
the *linifolius*?  
Far <sup>as</sup> <sup>the</sup> <sup>val</sup> <sup>is</sup> <sup>secured</sup> <sup>the</sup> <sup>new</sup>  
(your *glauca*? I hope so,  
Has the zealous Mrs. Andrieu been  
honored yet?  
Hastily but sincerely  
Yours &c.  
J. E. Common.

Notes &c, 2<sup>nd</sup> Sheet;

Now I will give some notes  
on the new and rare things you  
found in my late collections.

*Gilia* *Garseni* (Poor spelling was  
your has two "s" instead of re.)

Some time *Gilia* was found on the  
very summit of old *Idaho*. Believing  
that it was new I gathered every not  
seen, forwarding most to you from *Greenville*.

My friend John *Garsen* is greatly  
pleased with the honor conferred and  
returns gratitude.

*Thulcea* *nana* var *Garseni* also on  
summit of peak, more abundant, I col-  
lected it 3 years ago there & it was reported  
by *Endlicher*, *Th. alpestris*, by mistake no doubt.

982, *Euphorbia* - n. sp! "sent to Engelman."

Found in *Gila* *val*, near *Paysonville*, <sup>thence to</sup>

986, *Lupinus* *ovatus* n. sp.

*Greenville* peak *Plumas* co, 8,000 ft.

989, *Lupinus* *intertextus* n. sp.  
*Plumas* co.

998 *Asarum* — n. sp. "with a piece of  
A. Hartwegii" the small plant grows  
in Indian val. Plumas Co., the slender one  
in Butte Co. val, " " which is new?

Got out a few specimens of each,

970 *Cratogeomys* *humilis* or n. sp.  
Humboldt Co. 3 localities, Plumas Co.  
the pubescent var. in one only, Indian val,

1042 *Thorkelia* "n. sp."

Big Meadows, Plumas Co., shades,

972 *Helium coccineum* "from Australia"  
I found by the road side Nev. Washoe Co.

978 *Trifolium* "apparently new,"

Clower val. Plumas Co. (too old,

1024 *Rhamnus alnifolia* "New to Cal"

Spring of Big Meadows, Plumas Co.

1034 *Potentilla palustris*, ("New to Cal",

Swampy bog of Big Meadows (ext. locality)  
in Graze Lake Placer Co. near Lake,

1036 *Grassia longifolia* "New to Cal"

Meadow near Brunelli, Big Meadows,

1037 *Schrankeria pelustis* (with the above)

940 *Rafinesquia calif* (after found

in grain fields of Lake Cal. & Plumas

938 *Glyptopleurum marginata* "re-discovery"

Near Modocworth, Nev. (Reno,)

945 *Eriogonum compositum*  
Sigmoid lava, summit of Lassen,

946 *Solemonium* — perhaps "humile"  
Side of Lemmon's Peak, Plumas Co.,

1053 *Orthocarpus fraxinosus* "New to Cal"

Big Meadows Plumas Co.

968 *Pentstemon densus* var sent to

in grows on granite sand, dry  
and sunny, Genesee val, and in  
Mohawk val, After large. I feel.

944 *Pectocarya penicillata*, "on the coast"

Found it in a shady ravine of  
the great desert, Humboldt Co., Nev.

~~~~~

Have forwarded many *Pentstemon* in

hope that I could thereby learn which is  
a new one.

undetermined specimens  
There are enough for another package.

but will wait until the woods are  
collected, a great many to collect

before it is right and exhibit  
fully, I have submitted this form;

and I have submitted this form;  
and I have submitted this form;  
and I have submitted this form;

P.D. Congratulate me

Dr. An item of great moment  
to me! While I was away  
on different trips this summer  
my oldest brother (Gus C.) was  
building upon what he called  
a wagon house. Just now  
he took me up to see a  
large 40 by 20 house nicely  
finished off with 4 rooms

affording abundance of room.  
for my present collection.  
and he invited me to take  
that it was built for me. &c,  
possession! so here I am  
nicely provided for. Not  
obliged to leave the privi-  
leges of mail &c. for a resi-  
dence at Webber lake,

J. D. D.

Webber Lake, Cal.  
Sept. 27, '95.

My dear Dr. Gray,

I write  
from the lake because I am  
here cutting tree specimens and  
I cannot afford to lose my  
evenings. Time is so limited.

There is a certain large  
shrub of the desert which I  
have long neglected to inquire  
about but it is very interesting.

It is ~~the~~ 888 of my  
<sup>Chenada</sup> Northern collection and your  
report says, merely, "wanting".

Hoping I may supply what  
what is needed for identification  
I will describe.

My duplicate of No 888. is  
a branch of a crucifer. shrub  
large - 2 to 4 in. at base - dividing  
as it ascends into long, straight,  
simple, white stems 3 to 4 feet high  
terminating with a large dense  
spike of long peduncled yellow  
four-parted strong-scented flowers.  
followed by slender pods.

While Prof. Case had to go  
back one day several hours for his  
mising sachel, I explored a high  
steep cañon on the west shore of  
Pyramid Lake <sup>(Prop. Co. Nev.)</sup> finding this beau-  
tiful shrub there, perhaps half a  
dozen plants of it, It was not  
yet in fruit, and its large size  
prevented fuller specimens.

I hope you may now identify  
this plant and if desired I will  
go for it next spring before the  
Centennial,

About my grapes, Dr. What  
shall I do with them?

Prof. Case seems to be an  
expert in their determination and  
I sent him 34 species last spring.

I lately wrote him to know  
whether I should send to him  
or first to you. His replies  
"So as you please. If you send  
all to me I will divide with  
Dr. Gray.

Now which do you prefer?  
I have several boxes of them, per-  
haps a pretty full collection.

Dr. Hutton sends his kindest  
regards and continued gratitude for  
honors conferred.

Very sincerely

Yours &c,

J. H. Gernon,

Sept 1.

J. G. Lemmon,

Sierra Valley, Cal. -

Amateur Botanist, Collector in Natural History,  
AND DEALER IN

SEEDS, BULBS and ROOTS of Rare California Plants.

(Sierra Valley, Cal., Oct. 16 1875)

My dear Dr. Gray,

Your kind note of the 3rd is recd. I congratulate you most heartily that you are almost done with Cal. Bot. Am hard at work still upon bee specimens, bothered very much with sore eyes, too. Am getting beautiful curved sections of all the large trees. I just received a letter from Dr. Boser, in which he says great alarm lest his freight should be too great. So I will take down the work, at present, in two or three sections. The work will be done in a few days.

most times, I have not found  
as economically as I have. I  
still have had to hire many of  
the men whose houses are on side of  
the road. I have not water it at,  
I have not a large number of in  
wooded side of the road and  
the men have to work at side of  
the road, and will spend more  
money than I can afford to be,  
I have that the whole of the  
country by the best use, sections  
attached. Our parties will  
exhibit large sections, but why  
should not the Agricultural Soc.  
act in this respect?

Dr. Boney has kindly sent me  
\$150.00 in P.O. orders. A great help.

Off for the woods again,

Yours faithfully,

J. S. Boney



And, my dear Dr, will you  
suspect me of selfishness if I  
recommend a relative? At  
any rate I think my oldest  
brother Wm C. Lemmon (com-  
monly called the "Judge") is well  
worthy, immortality. He is a  
lawyer by profession, a farmer by oc-  
cupation a zealous patriot by instinct  
and a most exemplary citizen by  
example. Lately he has shown  
great zeal in helping me along with  
my various schemes, providing this  
large and beautiful Herbarium building  
and working daily upon the wood  
specimens for the Centennial.

I need hardly add that the  
growing of a flower for him would be  
duly appreciated and gratefully acknowledged.

Have just packed two large boxes  
of living plants for Vasey, and Sargent.  
The most valuable collection I have ever made.  
It is so late I fear their safety. Could  
not get them before. Our way is too large!

Very sincerely

Yours &c, J. G. Lemmon,

J. G. Lemmon,

Sierra Valley, Cal.

Amateur Botanist, Collector in Natural History.

AND DEALER IN

SEEDS, BULBS and ROOTS of Rare California Plants.

Sierra Valley, Cal., Oct 30<sup>th</sup> 1875

Dear Sir, I have just  
received your letter, but I  
must stop. I greet you with  
a few lines.

The thought that you have  
been enabled to reach the closing  
lines of your great services  
on Bot. Calif. inspires us  
Californians with gratitude.

Now our duties commence.

It must be our pleasant  
task to talk about the work,  
write it up, publish the great  
undertaking until every homestead  
and miner's cabin shall contain  
testimony of it and every one pos-  
sible be induced to buy.

... ..  
... ..  
... ..  
... ..  
... ..

The iddest person - the most  
... .. is interested in  
... .. flowers, grasses or fruits  
of his own land; but the love  
of nature will save the Cal. Bot.  
if ever fraught with his retirement!

... ..  
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... ..

I have no idea of the character  
of the work, whether like Flora of  
N. A. or in more popular language  
with definitions of generic names like  
Gray's Clasp Book of Botany, but  
whatever it is, I am going to

... ..  
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... ..

I omitted in my notes of  
the last new species to recom-  
mend a helping friend for honors,  
Perhaps it is not yet too late,  
Mr. Archieus Martin of Big Bear  
once accompanied Mr. Garsen and  
myself for a few days on the  
trails of Papaw and rendered  
much intelligent assistance. He is  
a fine scholar & successful teacher,  
he followed my naming of plants  
eagerly with pencil & paper, and  
promises to make a fair analysis,

2<sup>nd</sup> Decr,

I want the new *Pentstemon*,

Among the many species here I have no way of knowing which it is - so have gathered liberally of all found and sent specimens of each again by this mail, Should you have occasion to send me any plants, please enclose a piece of *Pentstemon* terrestris, I should like to know if it is pretty,

I have not seen it in the woods, and the seeds of the new *terrestris*. Plants are not seedling well this season,

There is one tree, in all my woods, of the *Abies Douglasii* in fruit. Not about *A. amabilis* etc,

now, at Coburn. None up north in fruit. I think this family bear on alternate years. The fruit are in soil and, and *Pinus*. No Cedar or *Thuja* are in fruit,

then urged the details and made  
of Col. Jackson to write more  
"James in the Tiger's claws" out  
in details until next winter.

The Chicago Alliance is devoted  
and many men high reputation  
for the cause which that it makes  
me much to pass it, I must  
accept. The time is now & I must  
close, etc.

I have been thinking of the  
fact that the Chicago Alliance, some of them  
near some things.

Sam. Mrs. Austin & Co. to help  
me along. She is ready and hard  
at work on Darling-bonia.

Just hurry over to town to catch  
the mail.

Excuse incoherence & errors.

Yours sincerely

J. S. Leammor.

(Have just organized a League here.)

J. G. Lemmon,

Sierra Valley, Cal.

Amateur Botanist, Collector in Natural History,

AND DEALER IN

SEEDS, BULBS and ROOTS of Rare California Plants.

Sierra Valley, Cal., June 1, 1874.

My dear Mr. Gar,

To now I  
must confess I am tired  
of trouble. Mr. W. writes  
me that you cannot promise  
me more than \$50.00 for  
C. seeds, for all my work.  
\$150.00 is already received and  
spent, and I must incur  
of work and expense still  
to receive. This was added  
on my list what is worth  
of my share, and what  
shall I do with the rest?

I did not think to  
trouble you with this dis-  
tribution this year, but

I ask tell me how I can  
raise a little money on  
them?

Each geography has a  
book of facts a book  
of a map with history.

I have such a lot of  
spare time to select out  
the spare time, I want  
will involve the  
of making, others in my  
people, names and putting  
in a lot of the people  
which I can arrange  
content and distribute.

What do you say, my  
dear Sir? Can you without  
be used as a substitute  
again?

Yours truly,  
J. H. P.

My dear Sir, I have a lot of spare time to select out the spare time, I want will involve the of making, others in my people, names and putting in a lot of the people which I can arrange content and distribute.

Sierra Valley, Cal., Nov. 14. 1885,

My dear Dr. Gray,

Yours of Nov. 18th, relating to the distribution of my this seasons Coll. of plants was received a week ago. But owing to the extreme labor of finding up my tree-business accompanying it by a full report of labors, etc. I have been unable to write you until now. I congratulate you my dear Dr. on turning the corner of 65 and that not before your part of Bot. Calif. is all in type. And here before I forget it again, let me thank you for various favors received this season such as the notes on Estivation which you kindly send me from time to time and are laid away until the leisure of winter.

They are all duly appreciated if not immediately noted.

Now as to my Coll. I ought not to send it to you and I cannot with the

understanding that it gives you such a deal of  
work and bother as did the first. You have  
treated me too partially, too generously, to be mis-  
treated by me. And only as but you have  
reaped immediate honors upon me, and my friends  
for which our gratitude shall ever dwell,

I was tempted to ask about my distributions for various reasons, first of course the <sup>6</sup> ~~idea~~ of getting some pay for my season's diligent labor, and also on account of items dropped from time to time in our correspondence. It seems now as if I am competent to determine with certainty, that which you should not be killed outright,

I resolved to visit you and will draw my proposition at once, but Prof. Case hearing of it came over to see me to-day, and after a long and warm discussion of your manifold good deeds, I now propose either of the following:

1<sup>st</sup> To keep my plants until such time as some  
one rises up competent to assume your arduous  
labors, assisted only by your instruction without  
the severe labor of your own head and hands.  
2<sup>nd</sup> To keep them until some <sup>when</sup> ~~business~~ time  
in the future, the distribution will not be so irksome.

2. 1. 5. 1.

Returning from the East in August I  
would find the Dr. resting at my home, and  
I would go into my wagon and scan the high  
valleys to the west and south,

How is this <sup>all</sup> that is desirable in winter  
or in the fall? How can I best subserve the  
interests of science? Do you prefer that I  
should assist in exploring the Territory, as the  
Government is working up the new report concerning  
it here? I know there are many new  
things here, and I mean yet to go back  
there, all the Surprise valley and northern  
New Mexico appears untrodden, I am not go-  
ing out there in April, as well as to the Colorado  
Yonder, and much deeper, in the time of  
Southern Cal. is very familiar to me, of  
course, Dr. Henshaw would be too, <sup>(at least to the extent of)</sup> this  
this region, and if you wish to, I will  
expedition at once in now,

Right - I am, and was extremely - I have  
forgotten a helix, I did not get your  
letter in time or it would not come yet.  
The "Tree" - and suffered so much since,





I used some cotton and seed of our  
cottonwood seedlings, and some twigs, and full  
of cottonwood, and some seeds of the  
in addition to such description of the  
can be written later,

I am still so distracted that thoughts  
are inconstant, I feel that cottonwood  
is a tangled mass, its seeds, of plants & seeds  
it is not, changed, its loss has caused loss a  
deal of trouble,

My bundles will be so large I can't  
move them, so my dear Dr. I can  
not take you again when you & wife visit  
and wish you as many more as you can  
enjoy,

I have ditched this again, Gathered Ran-  
unculoides repens? in full bloom to-day - even  
in this altitude,

I will close the seed of Cottonwood now,  
it can be as is,

Best wishes,  
Yours truly,

J. H. S. common,

3rd To let them rest in my herbarium until  
for, They will take no injury nor decrease  
in interest for years, You are tired almost  
by a tremendous review of work, as Ed,  
Paul, and Bob, etc. etc. and next year  
being published, my plans should be for,

I will try and get along, but whether  
it do or don't, is no reason why I should  
retire upon illness, I will first select and  
then as Dr. Vasey was desired, then put them in  
a strong box or boxes and hold myself  
ready for your decision,

For again, they might be sent by Express  
free of charge to you, and you could let them  
in your herbarium until needed,

My next heavy task is to put up shelves  
make receptacles for all my plants <sup>in order</sup> I am obliged  
to do this, to get out Dr. Vasey's plants & others,  
The lumber comes to narrow, and will be quickly  
dried and put into shape, Then I shall have what  
I have wanted so much, - a place for my plants,

As I explained to you, Dr. Vasey can give  
me but \$200, in currency for my trees, and \$100 for  
my live plants, bulbs, seeds, I paid out \$200 <sup>(gold)</sup> for

distance, - The good Dr. has treated me more liberally, which I have tried to deserve, and I do not complain, but as no other parties gave me a dollar this year, my receipts barely cover expenses and there is no advance ahead,

However Dr. Webber & Prof. Case are determined that I shall explore our east next year just as I please, which introduces another topic upon which I wish your advice,

Mr. Lacey as you perhaps know, is resting in <sup>Cal.</sup> Chamberlandia this winter preparatory to a thorough exploration of the high Sierra next year. He first goes early in March, to the lower Colorado, then works along up the river to Oregon,

He has corresponded much with me lately. (as did Dr. Engelman,) and now invites me to accompany him next season. As I have little knowledge of desert plants I ought to avail myself of the company of a competent explorer,

then the region around the culminating peak of Mt. Whitney is the very one you desired me some time, to explore, is it not? - That would be limited by James (perhaps, when as the country from Yosemite on to Leaven is familiar to me, I would leave the Dr. there and hasten to the Terminal,

I have a very much to say to you  
 in the matter of the "distribution question"  
 which day, I hope, will be the  
 one when at last the "distribution question"  
 will be settled. I have your  
 thought described in the "distribution question"  
 it will be what Vasey doesn't  
 want and which we will not all  
 have. I have just completed putting  
 5000 dollars in my "distribution" all ticket  
 off the 1000 to guide the points. It  
 will be next week, I think, it will  
 be very pretty and just the thing  
 for the money. Mr. Johnson has reduced  
 the violet to a var. also that you  
 do not think that the violet is distinct.  
 Both are very light, from my  
 other species known; and the latter  
 in its offensive smell and acid leaves re-  
 sembles *P. verrucosa* rather than *P. lutea*.  
 I should be delighted to receive a copy  
 of this year's "Contributions". Can  
 you give a copy for that too?  
 I hope Mrs. Austin is pleased in that.  
 Mr. Allen there is an American, a man  
 and one or two more new things in the  
 vine. I am not sure about it. I am  
 sure and very glad to see the *Halimolobos* of  
 the Humboldt plant to be used for  
 coffee (see the three of my best friends  
 would be the same as the rest of the  
 collection. Yours very truly,  
 J. E. S.

Sierra Valley, Cal., Dec. 21, '86.

My dear Mr. Sargent,  
 I have received your letter of the 19th  
 and am glad to hear that you  
 have received my letter. I am  
 glad you have received my letter  
 and also the notes on the notes  
 on the birds.  
 The letter from Mr. Perry is  
 just in. So, so now I can  
 write a little more about  
 from the time we to send you,  
 I am sure, that will  
 the hypothesis to you from the  
 the whole of my study, a word with  
 his wishes, and with the good  
 of the whole of the world  
 his judgment and demand. The



Should you at any time wish a particular plant, and you have retained the numbers, please send for it by number, and Prof. Case or I, if at home, will cut out and forward my duplicates.

The necessity of sending again many of my plants was because I did not hit upon the present mode of securing the numbers to specimens, hence a great deal of annoyance to you and of uncertainty to me.

The Silenes are in such a muddle from different reports before Prof. Watson's article clearing them up, that I send many again to be sure of identity specific none,

Also some Composites are sent to correct errors made two seasons ago, before securing tickets,

Incidentally I found my lost seed of the little *Platyspermum scapigerum* and enclose them, Hope they will grow.

Must take another sheet and talk of your "Contributions", &c,

*J. G. Lemmon,*  
Sierra Valley, Cal.  
Amateur Botanist, Collector in Natural History.  
AND DEALER IN  
SEEDS, BULBS and ROOTS of Rare California Plants.

Sierra Valley, Cal., Jan. 29. 1876.

My dear Mr. Gray,

Two more packages of plants for you, by this mail. Have finished the long, careful selection and packing of Dr. Hasey's desiderata, and while making the complete examination of all my collections, many plants not before reported, turned up and I was so at fault, at times, when my duplicates were marked with "???" or specific characters not given for various reasons, that I determined to send a few of such again, — hence the 2 small parcels herewith.

Please take your time about determinations and report as usual to

me here. Prof. Coe will take  
charge of my botanical corres-  
pondence and acknowledge let-  
ters, transact business &c. in my  
absence, — if I go, A little  
doubtful yet.

The plants for Dr. Vasey filled  
tightly, a box 3 ft 3 in. <sup>long</sup> by 2 ft  
6 in. wide & deep. — Beside the  
plants he has marked as desirable  
I put in everything you or Prof.  
Watson marked as anyway in-  
teresting. Of each species the  
specimens were from 3. to 20.

all put into convenient bun-  
dles, tied, this time, — and  
must arrive in good order.

I sent a large number of  
specimens of Conifers and other  
lignaceous plants, remembering  
that, you wrote me that Col-  
leagues seldom gather such  
bulky things. I think he will  
be delighted with the entire collection.

As you proposed, I sent all my  
Gramineae to him except where the  
quantity of a species was too large  
to be in proportion. As I  
sent by ex. p. I could not  
afford now to forward the rest  
of my coll. in that way, so  
will tie up securely, and stow  
away until a convenient season  
when they may be boxed &  
sent somewhere, as freight.

The number of species now  
seems double of that reported  
last season. A small, or otherwise  
suitable one of each, I placed  
as before, into large books,  
fastened to the right hand pages,  
securing the book by two strong  
long straps with buckles. I now  
have 4 such books stuffed out  
with a specimen of every plant I  
have collected. This constitutes  
a very convenient portable herba-  
rium. An index accompanies each.

2nd sheet.

leaf of two ranks of leaves,  
The most numerous are with dark  
apple-green leaves on both sides; the  
white bloom entirely absent, other those  
flowers in number, is also somewhat  
often intermixed with the first, and  
with branches presents the silver,  
silver, with numerous nodding, or  
every branch, I think I  
have never met with A. grandis var  
lasicarpa you wrote of once, though I  
found no description.

Am waiting a letter from Dr. Parry  
deciding whether I go in June next week  
or next Aug.

I calculate to gather a large  
stock of conifer seed this season,  
of the beautiful fir especially.

Hoping that some of my things  
s. things may prove interesting. I  
remain

Sincerely Yours,

J. H. Brown.

Thanks for your last  
"Botanical Contributions." Am  
pleased to see that Mrs. Ames  
is honored again, also that the  
species of Epilobium Larseni holds good.

I judge by its absence that  
your materials for the new Red-  
sternia Stearnsii were insufficient,

If it is either of the two ~~top~~  
now sent, I will get both.  
Plants this season, perhaps.

Really the results of Dr. Parry's  
scrutiny of southern Cal. is some-  
thing wonderful. A dozen or so  
new species and three <sup>or more</sup> new  
genera! Dr. Parry writes that  
he meets with new things, too,  
several capital ones.

He writes that he "expects to  
grab along alone as you will



and found for the Centennial, I see,"

I have replied that I will send  
lines first for three  
months upon the 20th. ~~indiana~~  
then, if able, go east.

The opportunity of getting into  
a new and eminent botanist in  
this field, is so good that  
I ought to make some sacrifice  
to enjoy it. Then, for hope, as  
you and others as-jesture, the  
Exhibition may give more  
amusement than gratification,  
and if I fail to reach it I will  
still make the best of it, and  
may be the better for being unable.

How may I understand the  
new Solanum Hartii? Is it  
the same as Dracula nana? I  
was reported for me once as "Phys-  
alis Pennsylvanica, var". I have  
a large stock of specimens  
for you.

Dr. Hook of Vienna writes me  
offering to assist me in a business  
way, in selling seeds &c, in his  
or my. I will write him a  
description of our rare conifers and  
what can be done. Shall  
we still call our green of the  
trees here the Abies amabilis, or  
yield to Dr Englemann and call it  
A. magnifica? Dr. Prue, also  
communicates a doubt from  
Mr Backhouse of Eng, who says  
"the true A. amabilis has leaves like  
A. nobilis but longer, broader, very  
dark green, ~~leaves~~ very silvery beneath  
with the ends looking as if clipped  
off square." Then too, I never  
have found "the cones covered with  
a wooly-like substance" which Dr.  
Bolander describes. The silvery  
leaves is a queer matter. Trees  
flowering. Apparently, the same bark (red  
when broken.) cones, growth &c, are

I enclose (by their request?)  
a little thing, (No 1,) for  
determination, and, (No 2,) the  
fern always called here Pellaea  
Cal., but Mrs Cooper lately  
received a note from Prof. Eaton  
saying it was Cheilanthes Cal.  
Which is correct?

Please reply on both plants  
to Miss Sarah A. Plummed  
Sec. Santa Barbara <sup>Botanical</sup> Society.  
Santa Barbara,  
Cal.

Hoping that you are in the best  
of health and spirits and wishing that  
you might walk to-day in this  
flowery vale. and inhale the odor  
of its immensely varied flora.

I remain, my dear Dr.,

Yours sincerely,

J. G. Bennett.

Santa Barbara, Cal.  
March 4<sup>th</sup> 1876.

My dear Dr.

Just a few lines  
on the way at this delightful  
place! Delayed a week  
in the <sup>sierra</sup> ~~mountain~~ by snow — so  
am late here.

Dr. Parry has kindly pro-  
vided a horse for me. To over-  
take him.

Take the steamer to-morrow  
for Los Angeles and will reach  
the horse the 2<sup>nd</sup> day, say  
March 7<sup>th</sup>, then hasten after  
the Dr.

Much rain has fallen, lately,  
affording an abundant flora.

I am the guest of the College faculty here, and of some ladies of the lately organized Santa Barbara Botanical Club. One of the ladies is Miss Foster, an acquaintance of Prof. Wilson of Cambridge & one of your most ardent admirers.

She is an excellent scientist yet has devoted herself years to the freedmen of the south.

We have <sup>just</sup> made an excursion upon the Santa Inez Mt. back of town, with the botanical class of the College. Hard climbing among the dense bushes have found few trophies.

An intense interest is manifested here by many, led by Mrs. J. Edwood Cooper founder of the college and lately honored by the new Gheil anthus, by Eaton.

She is ably assisted by Miss Sarah A. Plummer a young lady of rare talents and good worth, entitling her to the position of Sec. of the Botanical Society.

You may expect much from this Society in the near future.

The mountains are so difficult to climb that but little is known of their flora. Except a tourist now and then, bearing away a bouquet, I cannot learn that a plant has been collected from their peaks.

Drs. Kellogg & Bolander have explored a few short canyons, but the gorges and summits are said to be entirely unexplored, and so peculiar is the climate that no soft distinct species live in the copses.

I have given up old idea  
of the Centennial. Took my  
choice and came here instead.

Dr. Parry says I may come  
out with him to the East at a  
better time. I begin, like you,  
to "hate a crowd."

I found the people of Santa  
Barbara alive to scientific matters.  
It is a beautiful locality you know,  
and I had to pledge Dr. Parry's early  
appearance there. I have no doubt  
but he would be furnished a home  
there for life if he will choose.

Weather delightful. We go  
to-morrow out in the desert for a  
few days. Have been too happy  
to sleep. Also have catarrh from  
a cold. Hope soon to become regular.

I intend to stay as long as I can  
be of use to Dr. P. and not in  
the way.

Yours sincerely, J. S. Dummer.  
Address, San Bernardino, Cal. Care of Dr. Parry.

Crafton Place, near  
San Bernardino Cal. March 13. 1876.

My dear Dr. Gray,

Here I  
am reposing, figuratively, upon  
the bosom of good Dr. Parry!

Never so happy in all my  
life! This Dr. is so genial and  
so full of information, and his  
ready so kind and indulgent  
that we are bound to get on  
amicably I hope. I have  
been received into the family upon  
the stipulation, on my part, that  
the presence of myself shall never  
in the least distract or discom-  
mode the Dr.'s labors, and also  
that I shall pay all my ex-  
penses of whatever kind.

I trust that care and watchfulness will keep me in my place, and as to expenses I am now well able to run much in that way.

Friends at home - including Dr. Robbins, Prof. Cass, and my brothers - (lately recruited, you know,) assist me to all I want. I say all this because Dr Parry is so incensed at the little pay I received for Centennial work that I fear he will be up to some scheme of epistolar from you or Dr. Vasey. Please remember distinctly I will not accept a salary, except for seminars. I should be forever ashamed of myself, and brother Cass. would never forgive me either.

Enough of this,

Have been running over the fields and up the mountain slopes looking at the pictures in the great volume outspread before me. Soon will commence its study. I think I can do this without troubling Dr Parry at all, just by the use of his books.

But the Dr. is very agile yet and generally is first ready for an excursion. The third party to our trio is Baron Osten Sacken whom you know. is so profound a scholar and a renowned entomologist. I would be greatly oppressed by the consciousness of my inferiority for their society but that they strive at all times to put me at ease, and kindly converse with me as if I really knew something! Strange how friendly are the truly great!

... that subject which is  
the subject of the inquiry we are now  
concerned with. It is a subject of the  
highest importance.

Wesley's Hills. "The tree sections  
are very satisfactory, and they  
cause me regret that you sent so  
small a lot as before." "

It is a great satisfaction to be assured that my work was well done, as expressed, in my report was a great pleasure.

... is not blameworthy  
... are liberally then before  
... is slight ...  
... in the ...

The girls will show us to their best next winter, & I shall like our children to see them, as far as they are going, with the new of Mrs. Libby.

I shall be glad if the news can be just  
true and coming this fall, & I  
further hope it is so early that it

I am certain that I can make a nice  
book. Barbara people still remain  
interested, and have requested the  
directions for collecting. To be printed  
the Prep. (last 40 items, 10 pages)  
I enclose 3 little ones for

I enclose 3 little poems for  
names. All very short. Only one kept of the girls  
yet. I wish your good letters were more  
very sincerely yours. &c.

(c) 1d. in Boston, 1911.

Adrian Le Bernardine, Cal.  
 May 1911

May 1901

I am so glad to hear  
that you are well and happy.  
I still report myself the happiest  
in California.



We made an interesting excursion  
last week over the San Bernardino range  
& its Bohave. Finding in the mountains  
a belt of timber along the slip the  
1. to 1000. *Pinus ponderosa*, & *S.*  
*quercifolia*, *Abies* *glauca* var  
*glauca* *grandis*?  
*macrocarpa*, *L. occidentalis*, *L. verreauxii*,  
*Donnell-smithii*, & *L. crysolepis*, *Abies*  
*macrophyllum*, *Fraxinus bipetala*, *Cercocarpus*  
*californicus*, *Cal.*, *Styrax* *Cal.*, *Cercocarpus*  
*parviflorus*, *Alnus* *sp.*, *Cornus* *sp.*, *Mod.*  
wooded to us, was the *Sarcodes* finely  
growing in the deep ravines, I suppose it  
is in my *herbarium*. The *Picea*  
is a puzzler, must see fruit, diff.  
the *abies*. On the plains picked up  
several <sup>larger</sup> *novellae* (to be sent with others  
soon,) and the *Styrax* *Parryi*, more  
of the *Polycarpon*, strange *Eriogonum*  
*minuti*, *Onagraceae* &c. A grand trip!  
Packed just put through dryers second  
time. All tired but happy. Soon  
get through here, then off to Santa  
Barbara. Address me here.  
Yours sincerely J. S. Sargent

"Craftern Retreat" near San  
Bernardino Cal, May 16<sup>th</sup> '96.

My dear Dr. Gray,

Yours of  
April 25<sup>th</sup> reporting on 4  
little things (including *Polycarpon*),  
was duly rec<sup>d</sup>. Thanks for  
your kind remembrance and  
the pains you take to con-  
tinue my credit in the Cal.  
flora.

Enclosed you will find  
3 other little things picked up  
lately and which we cannot de-  
termine with the meager notes  
at hand.

*Alchemilla ~~arvensis~~ arvensis*  
No 1165. was found under bushes near  
a pasture and may be introduced.



No. 1166. was picked up on the  
head waters of the Mohave river last  
week, in the clean sand along with  
Arisaema acule, a species of  
Crotalaria, an Oxytheca, Gilia &c.  
including the next —

No. 1167, Head waters of Mohave.  
(a head <sup>and</sup> <sup>leg</sup> <sup>leg</sup>)  
limited to a narrow locality,  
but abundant there, often white,  
a nearly resembling Gilia diantha  
oides that it was not collected by  
Dr. Parry who saw it also,

From the Conspectus of the Gilia  
family, at hand, this appears dis-  
tinct, and if it proves to be  
so I have a request to make,

Please name it for Mrs Dr. C.  
C. Parry. You know the lady  
well, I believe and so did Dr.  
Parry, and are well aware of  
the worth of Mrs P. and also  
of her usefulness in furthering the

limited research, which has  
done much work in the last  
month at Washington, mounting  
plants for the herbarium, and  
her many years of service  
to the field, which will be a great  
Dr. C. is so interested, with which  
in our field and enjoying in  
a triumph — often speaking, greatly  
in the course of the day,  
I need say little more in  
favor of one so well and so  
known and so good, and  
this I need add, which is highly  
esteemed by all who meet with  
her here, and from conversation  
just held with her I know she  
will duly appreciate the honor, and  
ever feel grateful to you. For  
myself I wish the extreme pleasure  
of "fixing" to immortalize so dear a  
friend to science and me.

Wanda ...

Gene

at the delightful ... on my way  
the ... after the ...  
the last ...  
I was ... at ... it is  
very ... deep sorrow, ...  
ated ... the ...  
that ... would join me in  
a few weeks at my own  
mountain home. (Dance)  
Osterback also ... to  
... at ... the ...  
will try to ... on ...  
the ... well ... the  
... the ...  
... the ...



I am we will give, unspeakable  
your name and name that the 1st  
of Oct. 1st, 1871, is the day  
when our friends Mrs A. is and her  
other friends are equally dated.

I am we will give, unspeakable  
your name and name that the 1st  
of Oct. 1st, 1871, is the day  
when our friends Mrs A. is and her  
other friends are equally dated.

I am we will give, unspeakable  
your name and name that the 1st  
of Oct. 1st, 1871, is the day  
when our friends Mrs A. is and her  
other friends are equally dated.

I am we will give, unspeakable  
your name and name that the 1st  
of Oct. 1st, 1871, is the day  
when our friends Mrs A. is and her  
other friends are equally dated.

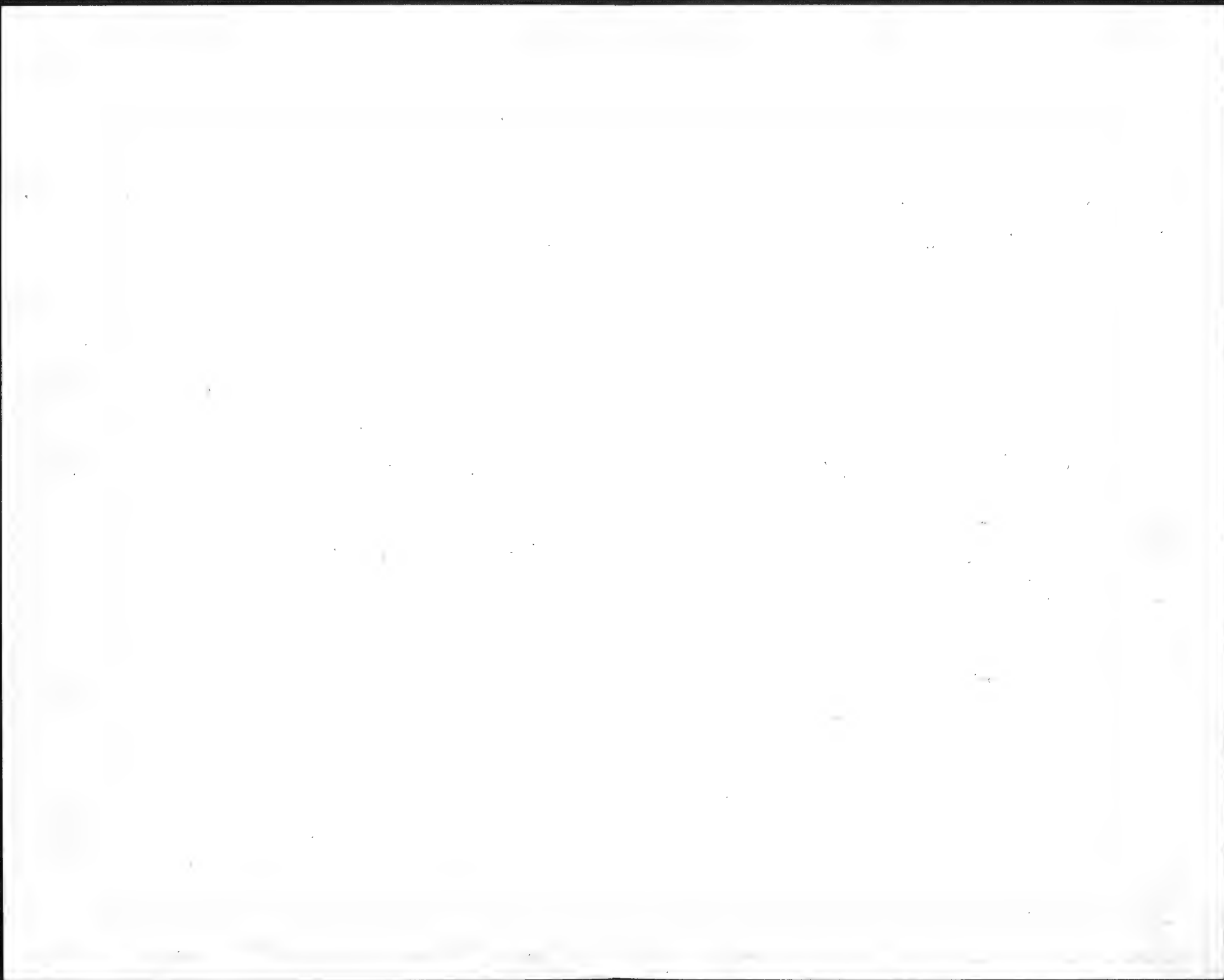
(2)

(1)

the

the

the



The new Bot (under my left arm)  
constantly attracts attention, I can  
hardly drop it for writing.

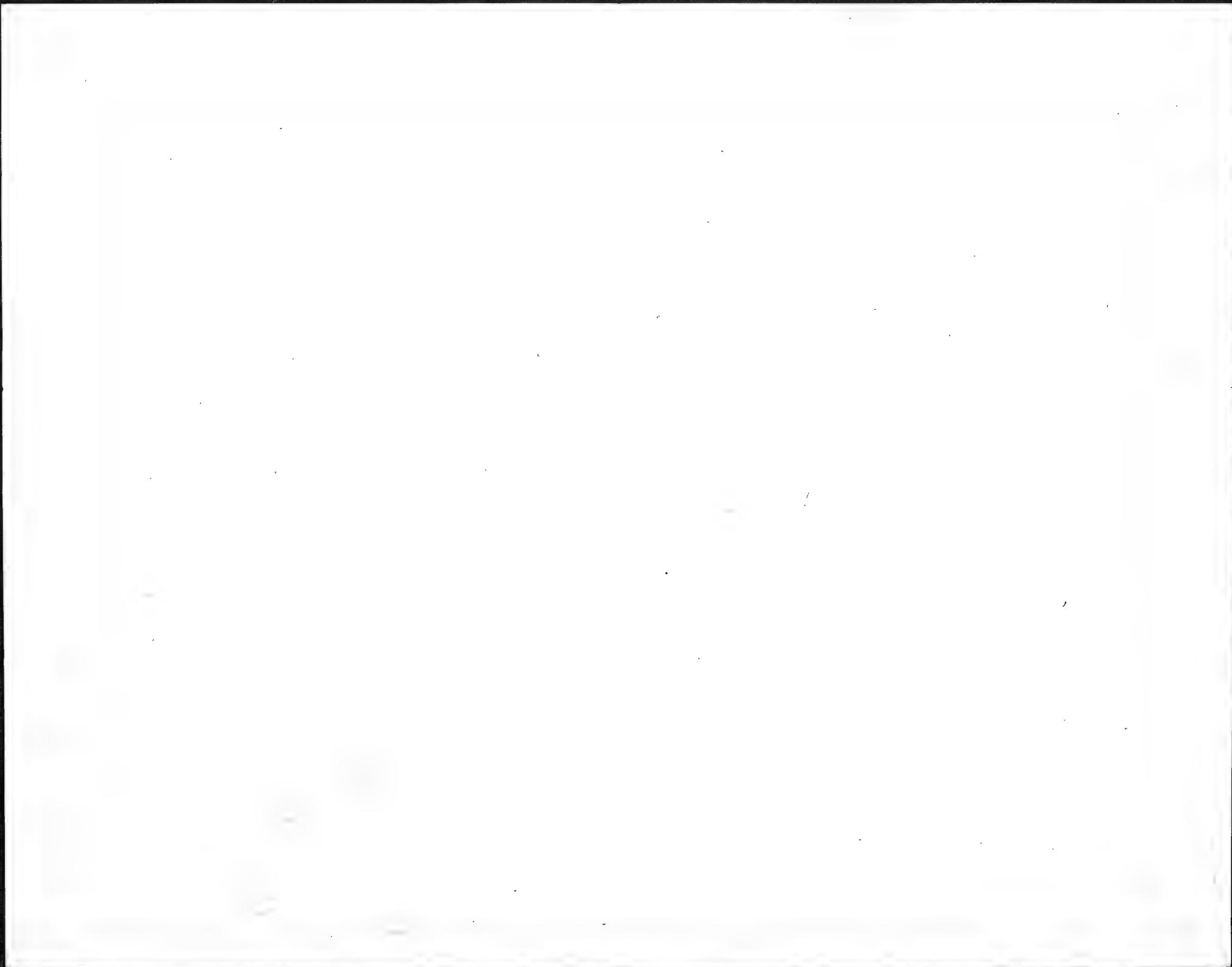
I notice the sub-section of Labi-  
steflora is represented by but one  
genus. I enclose a specimen of  
Trixis which was picked up on  
the water river of the Col. Desert.

There has been such a round of  
pleasure here of late that I am  
too distracted to write. Col. Hallister  
gave a complimentary dinner at the  
Arlington yesterday to Dr. Parry & friends.

Very grand affair. A Farewell Re-  
ception to-night given by the little  
enthusiast Mr. Plummer. closes  
the series. Dr. & Mrs. Parry now  
like Santa Barbara as well as I do.

To-morrow early we leave on a steamer  
(I hope I said by the good Col. Hallister) for  
San Francisco.

Adieu my News. J. S. Pennington.





now I believe, sent you to it by  
Dr. Gray, & on what that is at  
the end of the comb. valley near  
the entrance, I believe it is  
always called it my de-  
ar, as he was anxious that I  
should have a species from  
Southern Cal. as well as to do  
the hard work done there.

Now I am much disappointed in not  
seeing Mr. Bot in San Francisco  
last night. Hastings, I fear he goes  
to the north.

Mr. Bot is coming to San Francisco  
in a week. He promises to send me  
some seeds.

I need the work so  
much. I know you intended I should  
have it and thank you all the same.

Do you have no recollection of seeing  
many plants of Astragalus communis  
from me? I can send you a  
package now if you desire. The  
plant is abundant in this country  
and is very common.  
Yours sincerely J. G. Lemmon.

J. G. Lemmon,  
Sierra Valley, Cal.  
Amateur Botanist, Collector in Natural History,  
AND DEALER IN  
SEEDS, BULBS and ROOTS of Rare California Plants.

Sierra Valley, Cal., Aug 4<sup>th</sup> 1876

My dear Dr. Gray,

My trip again,  
My contemplated three months  
tour was prolonged to five, and  
every day of it most heartily  
enjoyed. But it is high time  
that I returned. Business badly  
delayed by absence. Many appli-  
cations from abroad for seeds, tho'  
few take right hold and the  
pay. One Carl from  
Australia gives the address of  
a dozen seed firms of Europe  
and offers himself to buy-requesting  
samples, sent. Dr. Reck of Austria  
proffers aid also to request list &  
prices. Do you know these  
parties & are they reliable?

will submit to the Bureau to  
Dr. Parry also the collection  
for this season is mutual the  
closed on next week. To the  
Webber Lake head quarters. The  
Baron Olsen Packen was there  
a few days but could not  
wait until my return, very  
sorry. He kindly presented me  
with two valuable books on  
entomology. I would have  
not been able to do so for the kind  
persistence of the botanists of  
Santa Barbara. They made  
Dr. Parry surrender too, and feasted  
us right royally. We were the  
guests principally of Dr. Hallister &  
Miss Burman. The latter is  
studying botany intensely. The Col  
gave a grand dinner at the Ar  
rington, and procured tickets  
for us to Col. Thompson's.

Was not that generous? I am at  
our present position. The present  
collection was presented to me, I  
am sure. I am sure I am  
like Santa Barbara?

Found the mountain valleys green  
with rank flowers. The great fall  
of snow last winter, the cause,  
the forms & perhaps species, being  
seen every side. No time to collect,  
until I go to Webber Lake to  
morning. Met Dr. Parry & wife there,  
Blouder & Hutchings (20. April)  
the week after. I wish you  
Watson & Dr. Parry & Co. could be  
with us for a month.

Found your report on plants  
sent from Santa B. awaiting me.

Think you may be correct about  
the marginata two plants. This  
Californica (Oct 11/88) is found

$$(x, y) \rightarrow (x', y') \text{ where } x' = x + \Delta x, y' = y + \Delta y$$

C      A



Sierra Valley, Cal., 9.2. '88

Mr. dear Sir

I have the pleasure of  
acknowledging your letter of the 1st inst.  
and in reply to inform you that the  
same has been forwarded to the  
proper authorities for their consideration.  
I am, Sir, very respectfully,  
Yours truly,  
J. H. [Signature]

I have the pleasure of  
acknowledging your letter of the 1st inst.  
and in reply to inform you that the  
same has been forwarded to the  
proper authorities for their consideration.  
I am, Sir, very respectfully,  
Yours truly,  
J. H. [Signature]





haver which I did not expect  
so soon, and of course,  
one to which perhaps it is  
more to be ascribed,

I am exceedingly sorry  
to hear of the bereavement of  
Dr. Barker. I had not yet  
reached the examination of  
your case, & so I had to  
hurry and get written to  
write and send me an extra  
\$10. It is hoped that  
he will speedily recover,

The good little Barker often  
writes has concluded to remain  
over the winter & sends me  
some valuable acropores for  
my microscopical & embryological  
studies.

Dr. Barker is busy distributing  
my flowers the hard task you

so kindly performed for me a  
year ago.

The new plant beds in  
Santa Barbara, are truly  
glorious & very valuable and  
every nail is packed with  
plants for the determination;  
this among the active  
workers there is the Treasurer of  
their association, Dr. J. H. Chapin,  
Dr. J. H. Chapin, who is  
the most most determined person  
for whom my society will  
petition for funds, & for one  
to know that, it is, and any  
other man there, & some, & some  
more, & some more.

The new plant beds are  
the attitude of the new plant beds  
are not yet to be dealt, & it  
is an extremely bad thing  
that only after it is dealt



93

5. 12. 11



Thulcea pygmaea on summit of  
Mt. San Geronimo

Thulcea pygmaea was collected  
last year by myself on two occasions.  
1872 & 1873.

Tetradymia - - - - -  
very common, with 2 to 4 flowers in  
a head. Leaves crested, numerous with  
the stem, abundant hairs

Trifolium - - - on White water, Col. Desert  
near San Bernardino, Trifolium,  
var. leaves, puberula, Trifolium,

Gomphocarpus purpureus, in Sierra valley,  
Gomphocarpus leaves, Webber lake.

Gomphocarpus leaves, Webber, Castle & Lapsen's peaks

Draperia stylata in Plumas Co.,

Thalictrum procera, Webber Lake & Lapsen's val.,

Leontodon communis also on mountains near Genoa, Nev.,

Veronica scutellata in Plumas Co.,

Pedicularis stallens in Webber & Sierra vols.,

" semibarbatula " " "

I have the honor to be

Very truly

Yours &c,

J. D. Serrinow,

I. D. Serrinow's permit will  
start him off on a tour towards  
 Surprise valley & the Modoc region,  
 Perhaps will see Grand Lake again,  
 and his father, &c.

J. D. S.

Webber Lake, Cal.,  
Feb. 28<sup>th</sup> 1877,

Mr. Asa Gray,

My dear patron,

Three

weeks solitude was broken yesterday  
by the arrival of mail, among it  
your kind note ofuring me of  
continued regard notwithstanding  
my naughty conduct, I am  
encouraged to hope for strength  
to avoid errors of the kind in  
future,

I have been too sick to do  
more than glance at the plants  
of Doubtless, I have studied in  
so many now with the various  
"Feb. 28<sup>th</sup> 1877" I am interested  
in the Compositae. Really

you now I am in a position to  
make that one of the subjects for  
deals with,

I am emboldened to send  
you my duplicate of a Consuetus  
like plant found on the Mohave,  
I sent it before and as I had  
heard this time it was being  
re-examined and got a report.

It is not described in Bot. Cal.  
and I have a description just for  
you. It was found in my possession  
and I have a drawing of it. I have  
also a drawing of it. I have  
also a drawing of it.

I send also a little Scrophulari-  
aceae plant, I think Antiochium  
sticticum? or cornutum? or neither.

I also give the following notes  
Some of them may be helpful, and  
work into the next edition of  
Bot. Cal. Principally  
in California.

## Notes.

Ranunculus Hemmonii is very  
abundant in Sierra valley every  
odd year, flowers often 2 inches  
in diameter.

R. cuneatus abundant on a peak  
east of Sierra valley.

Aconitum Fischeri, Found tall  
plants near Tahoe with bulblets  
in upper axils, 8 & 12, <sup>axil</sup> one in each.

Isolopofetalon Nevadaense, In one  
ravine only, entering Pyramid lake.

Trifolium Hemmonii, in Sierra val,  
Thosackia Toveyi, <sup>all the</sup> northern valleys,

Abregolia Hemmonii abundant in certain  
at base of mountains of Sierra val.

Corydalis, accidentalis not  
in all of Plumas Co.

Linum, Anglica, Big Meadows, Plumas Co.

Aconitum pulchellum near Pyramid lake

Bidens pilosa near Crefton with  
5 anns & entirely glabrous.



Well that Mr. Holmes  
was a polyglot, from the time  
he was interested, and as  
often as the duplicate might  
my eye the paper yielded  
and I thought it was over,

At last my best friend  
was helped sufficient to  
go to work on it, thinking it  
to go with an attached to  
a copy, The name of its  
collection and its locality makes  
it evident that the plant is not  
new, as to its growth pattern  
collection and <sup>its</sup> cultivation.

It appears that it will ready  
the class of our journey at  
Brafton did not get into the  
floral investigation. Bear Valley  
for Dr. P. & Holcomb as  
the Ashland for no ball.

Good Mr. Perry was a  
young man and it was  
the wife and it was a  
long previous letter, and  
the old and were  
in a number of places,  
I was told that it was  
places, I was told that it was  
was a number of places,  
from England, India & Africa,  
I was told that it was  
and strength to the plant.

It will be a cloudy day  
I can confidently expect to see  
the exploration of my brain  
long at the old and cast,

My friend is 4 years through  
Shawing Lake and Big Valley, &  
along the Lake line towards  
the Astoria region as far as  
possible compatible with  
thorough collection.

generous woman, thoughtful of others &  
that she now appears to be assisting  
others to the same regulated & economical  
advancement.

Mr. G. B. Moore  
writes me every  
very rare things, & he will go up  
every back, as you direct.

[illegible]

I studied animals in Natural  
History in a very fast and  
enthusiastically pursuing the study  
of Botany. Already the relations  
of plants to animals and  
to the human mind are  
shown wonderful familiarity  
with plants already.

I don't think this is a question of  
love with more general science  
and the kind of interest in plants &  
insects at the house, but in  
the way being always shared with  
one or more inside,

And I say more, I will  
only add that good Dr. & Mrs. Perry  
know her also, and, as they are  
about to visit you, please ask  
about Miss Plummer, who insisted  
upon the honor of entertaining them,  
during the most of their stay at  
Santa Fe, and will honor the Science!

With a little time in a hand  
at work for the entire evening  
we keep over the mountains of  
at various valleys, which she is  
dramatizing in her writing,  
I advise her to save her  
length for the ascent of the  
mountain in the vicinity of Santa  
Fe, and friends who will assist  
her, who has as much love of  
the science as ever, adding in  
a later letter, "I do 3 years that  
I have passed in pursuit of Botany  
and the only ones in which I have  
lived in California, and I bless  
you, Mrs Ames, Dr. Gray, and  
Darlingtonia every day,"

Mrs. Ames has just moved  
into a new house in Santa Fe  
and wants to plant a collection of  
plants and herbarium the winter  
and spring. There is such a



1  
Irraw Valley, Cal.

Nov 24, 1881

Dear Sir,  
I recd your letter some time since asking for the forms of the *Albion* & *Phagoptera* *albertae*. I would not have replied sooner but I now at length I tell you all I wish to say to our most highly prized correspondents.  
I dispatc to you today a packet of plates, the most of them new. I could not make send the two forms above, they are so wet I fear it would ruin them. I will send you more when they are dry. They ought to be highly appreciated for their newness if

at the ... country,  
... great ...  
... great ...  
... with ...  
... with ...  
... first ...  
... also ...  
... der ...  
... where ...  
... with ...  
... and ...  
... that they ...  
... if they ...  
... chance.

... day ...  
... miles, ...  
... ..

... ..

( ...  
... day, )

Alameda, Cal., Feb. 8, 1918,

My dear Sir,

Sickness or distraction  
has prevented me from writing you  
often this winter. I received duly  
your nice picture & forwarded it back  
to my car master. To avoid my re-  
turn home next April, I am  
able to work or talk friends here.  
Keep me busy, but I often would  
rather chat with you.

To night, <sup>read</sup> before the Acad., a  
description of what I conceive to  
be a new Lappin, (Copy enclosed,  
Please criticize.)

Watson writes for fertile flowers  
of Cereus, Opuntia, & Yucca. Is  
it possible that specimens of these  
are endangered? I'll get them, if  
able next week.

(My seed gathering proved







I've lost my copy of your description  
of Leunmonia Californica. Will you  
please send me another?

Alameda, Cal., Apr. 29, '78,

My dear Dr.,

The last mail brings  
two copies of your late "Contributions"  
Many thanks,

I am greatly obliged to you  
for the pleasant mention you make  
of me as "sharp-sighted & enthusiastic"  
but more particularly am I pleased  
and proud to my name so honorably  
associated with yours & Sir Joseph's  
in the discovery of Grignon miser,  
and that too, upon my favorite  
mountain, Stanford,

Your Salium margaricocum is the  
one I told you of as growing so  
abundantly on the Downville  
Buttes, - but of course as I did  
not state to Watson the color

of the berry I lost my credit  
and the plant was considered to  
be G. Nuttallii. It becomes  
a rounded, dense bush, on the  
peaks named, its white, large berries  
sparkling like pearls in the sunlight,

With it grows in abundance  
Pentstemon Gummoid, Grimm  
subcordata. Polygala - (formerly  
called Nuttallii, My Bot. Cal. is  
at the binders for a new cover.)

and on the base of the mountain  
grows Lupinus Gregii.

The want of my book and the con-  
fusion of preparation have led me into  
a large error, I fear. Upon reflection  
I think my big Abutilon is only Ab.  
inca grandiflora.

We start to-morrow. Party numbers  
55, I see plenty of work ahead, &  
please so many invalids - but I also see  
fine opportunities. Letters will follow me  
directed to Alameda.  
Yours sincerely  
J. G. Penmon.



Camp San Antonio, Texas  
Jan 12, 1878.

My dear Sir,

Enclosed I send you  
the bill, the price - \$14.00  
from the vicinity on a high ridge  
at 1400 (the Arroyo?) from summit of  
the Hamilton, near site of the old city.  
The first is an odd thing, perhaps &  
the price not reached by the note.

My dear Sir I am sorry to trouble  
you, but in the confusion of breaking  
up in Alameda I lost my copy of  
your last Contributions - April 5.

Can you send me other copies?

I have just asked for one of the  
same kind, but I must be more large  
hearted.

Yours truly,

J. St. Lawrence

Alameda, May 27, '84,

My dear John,

Some time just past  
a friend asked me to write  
some thing about the failure  
of the San Luis excursion?

It is a terrible failure but the  
it is the greater effort. The  
is nearly a miracle.

Too bad for all of us! I have  
lost my noble season's prospects  
and just as I was prepared  
to be of use in the great  
cause. (But though the party  
of 60 afforded great satisfaction  
and affording a paying audience, there  
was too much interruption for im-  
provement & I blundered terribly  
I sent you two old well

Among things I shall miss  
Phylla and Chlorophyll for  
rare things - did not even see  
the minute corolla in any  
flowers of the latter.

Can you give my friends?  
A crowd of questions always  
about me, and just the day  
yesterday among 150 ladies at  
the Mills Dining, naming  
and correcting names of plants,  
saying it very much.  
Must leave to get paid for it,  
and to go down - and over.

Many thanks for your kind offer  
of the book. Please send it to  
Santa Barbara, - for which I start  
to-morrow to join a party of scientists  
for Go. Senile, soon. I hope to have  
more time there, and to still be able  
to be of use, but O, it's so late!

Yours sincerely,

J. L. S. M. M. M.

Glad to see in new vol. Flora of Ch. A.  
that Gilia aggregata is placed where its  
unequal stamens take it, to Collinsia.

From observations upon the oaks &  
find all grades of form in L. chrysocephala  
clearly including Kellogg's "racemifolia"  
A long, narrow-ovoid Abies modifies  
its character of A. concolor, found near  
Denver fall.

I wish now that the weather and  
my inevitable company had permitted  
a better exploration of Cholame valley  
& vicinity. Peculiar, isolated places.

I know Col. Hollister will join  
me in hearty thanks for the tower  
conferred. But for that solitary  
"find" my whole season would be  
lost, in a certain sense.

Very tired, lame & busy, so please  
excuse inclosure.

Yours sincerely

J. G. P. Common.

Address me at home - Sierra Valley.

La. - Santa Cal, (Sept. 1, '91)

Dr. Com.

My dear patron & friend,

Good  
for the Hollisteria Carota! Many  
thanks to <sup>you</sup> Prof. Watson.

Found it first as little mats 2 to  
4 inches across in Cholame valley. (Same day)  
& <sup>the</sup> <sub>1</sub> soon after, large mats were  
met with 10 to 20 inches across.

Being new to me I hoped it was  
new to science, so gathered large quantity  
but lost nearly all in handling so  
brittle. Sent my collections from  
time to time off to Cal. Acad. Sci.  
Can send you specimens from there  
as I pass by D. F. for home in a few  
days.

Cholame val. is owned in part by

Col. Hollister & is used for a sheep  
range. The Latin generic & specific names  
are very appropriate.

The col. is in the S.E. corner of  
Monterey Co. Found the plant  
also July 7, in the plain east of  
Pollenia pass & 25 miles from Lake  
Island.

I send a specimen & make the an-  
nouncement to the Col. today.

Enclosed are a few little things that  
may show unusual forms. I'll send a  
large package of plants soon. The Pen-  
ricospora & others.

I am on the look-out for Pod-  
scidium, but fear I have not time.  
Are all busy packing up to leave.

Just returned from a fortnight  
exploration, alone, of the High Sierra  
back of No-Semite. Though my  
horse threw me the first day out  
and badly sprained my back yet  
I crawled along like a wounded

snake and ascended some here-to-fore  
unconquered peaks of the lofty & gold  
group, also, <sup>climbed</sup> Mt. Loma.

Very much enjoyed the glaciers and  
moraines of & gold. The flora  
is much the same as Stanford and  
Lafayette at lower altitudes.

Also I climbed to the crown of the  
Half-Dome by the aid of Anderson's  
little rope. The dwarfed flora  
is very interesting.

The white-flowered var. of Aquilegia ~~Silphium~~ cer-  
rulea grows on side of Loma.

The Ammonia leucialis in No-Semite  
Hemizonia mollis, var. flori-flava, near Big-  
Calochortus clavatus Page near San Luis Obispo.

I have forgotten to thank you for  
putting me into the large family of  
Gilia along with Mrs. Parry & others.

Galium margaritaceum very common  
on Semineville buttes, along with <sup>large</sup> quantities  
of Pentstemon Lemmonii.

Go-Semite, (Sept 5, '76)

My dear Dr.

By this mail I forward a few odd forms of plants & the rarer ones of this locality:

1430 Antirrhinum - a single plant from

the wash of the creek, Chidame val,

1 Malva? very strong-scented! " "

2. Spiranthes? shade of trees Go-Semite ex,

- 3 Korunkia perennial! Chidame,

- 4 Bur-grass. Pools of Sierra.

- 5 Salicornia? large, stout bush. Tulare Plains

6 Lupinus. Mt near San Luis Obispo

7 Bolandra Cal. Meadows & folds of Go-S.

8 Lilium parvum? Moriposa Big Tree grove,

9. Populus. very pretty, clouded leaf, no fruit, Chidame

1440 Pleuricospora Moriposa Big Trees.

1 Senecio Clarkianus Upper Go-Semite

2 " Near summit of Mt. Dana.

I talk of removing my herbarium  
to this valley & stopping here during  
the summer seasons. Friends  
here think that I might make  
a living by determining plants for  
tourists, making up specimen books  
of Cal. flora &c.

Perhaps I could work into the  
seed selling business along with  
Mr. Steyvers, or independently.

The start day after tomorrow for  
home. I go via Alameda.

Will probably remain at Liza  
Valley during the winter.

Am still lame from the injury to  
my back sustained during last trip.

Col. Hollister's friends feel greatly  
elated over his honors. Papers every-  
where copying the announcement.

But-for that "find" my season would  
be dreary enough.

Yours sincerely P. J. L. Munro

at 11. My friends this afternoon with a party of  
me from Santa Barbara to Los Angeles is  
to be published, soon by Mrs. Celia, an excellent  
writer. I will send a copy to Mrs. G.  
when published, in about 60 days. J. G.

Sierra Blanca, Cal.  
Jan 14 1886

I am glad to hear that you will  
be home. Would you like to  
come with me to the  
house of the school. The school  
at Santa Barbara is a  
little school supplied with a  
great improvement in the  
facilities. The school is  
in fact, quite the liveliest member  
of our family. I return sin-  
cere acknowledgements of the honor you  
extend and heartily wishes that you  
both may enjoy a happy & fruitful  
New Year.

Hoping to hear from you soon  
again.  
Your sincere friend  
J. G. Lemmon,

My dear Sir,  
Your note of the  
15th at hand, many thanks.  
Kollisteria  
I am glad to hear that  
that you are still in the  
a very nice place.

During the summer recently,  
took me to Sacramento from  
whenever I want to go to the city,  
to see about getting into some kind  
of employment. I am  
now in the college territory  
in order receive good pay for  
it. The college has bought  
a \$50 microscope for use with  
which to teach the students



as in the winter  
taking notes on insects in the  
mountainous districts.

I must add something to  
my sketches and try to fix  
the colors.

I have been very busy in  
drawing the sketches, but I  
keep it for the present, but I  
mean to finish something not far  
from the kind which you value is in  
issue. I had to learn that it  
is ready for the book, except for  
Enochmann's part.

I have agreed to give you some  
ideas concerning alpine trees, but a  
dear! The storm of wind & snow  
is troubling.

I am publishing a series of simple  
articles on the cones in the same  
issue. I have sent copies, for your  
correction.

Frederick at the Academy  
of Sciences reminded me of  
a proposition discussed there  
ago, which was to ask you if  
you would recommend me for  
a leave of absence to the Academy.

I have omitted to do so, fear-  
ing that the scheme would be dis-  
turb and so only give you trouble.

But as time passes, & I grow  
older in years but remain an  
enthusiast in travel & discovery, desire  
adventure, timidity and I now ask  
if you can & will do so good as  
to recommend me for favors.

The line of procedure worked  
out for me is to get a recommend  
from you and Prof. Watson, send it  
to Gen. B. D. Redding. He will get  
it endorsed by Prof. Davidson and  
others at the Acad. & then it will  
go to Gov. Stanford.

Sierra Valley Cal. Feb. 22. 79

My dear Dr. Gray

I have delayed writing you for some time thinking to make up a package of plants. Have a few sent herewith.

But before talking about them let me thank you very warmly for the long letter & strong recommendation you sent. Just the thing I think, have sent it on to P. P. Hays - or rather to a member of the Acad at his quarters.

Have terribly over-worked all winter, first in putting my season's Coll in herbarium, determining &c. lately in taking out each order and selecting spec. for putting into sets for sale.

Am putting up 10 sets, of several hundred each. O dear! how tiresome. Now I can better understand the <sup>similar</sup> labor you performed for me, and my gratitude flows afresh.

All but two of my self engaged, mostly in this state. I shall only get about half through this winter. Am working alone, & though very swiftly, have only arrived at umbellifers. But now the snow is going, mud drying, birds & frogs singing. Spring is near. I

am determined to finish the exploration of the desert  
and lake valleys to the N. E. of me. Start by the  
1<sup>st</sup> of Apr. if not sooner. Objective point Surprise  
val. and upper waters of Pitt river, Modoc lava beds &c,  
returning via eastern slopes of Shasta & Lassen. Will  
be accompanied by Prof. Case & others! a genial party  
as usual

I learn from Bebb that his willows are finished up  
and published. I have just sent by express a box  
of green conifer spec<sup>s</sup> to Engelmann, the results of  
several days' exploration through soft snow & deep mud.  
Hope they will arrive in time to be of use.  
How for my sendings to you.

No 1435: Thermoxena plumosa is it ~~El~~, Coll. Sep. 21, on  
sand-wash of creek, Graysen aff. Stockton, Pland  
Tall, showy galled spec. from my horse, fls. 1 inch  
or more across, whitish.

1436. Leonotus ? <sup>is it a Leonotus? Anagallis?</sup> Plains near Pap to Cholame val.  
solonch. Hollisteria turned up. Only a few bushes and  
this one spec. preserved. — so hurried, Feb. 9. '88

1437. Ononis Breweri ? Mts north of San Luis Obispo, fls.  
dark red, very showy, plant low, <sup>generally simple</sup> about 1 ft. to 2 ft.

1438 Arctostaphylos ? Branch of a clump of bushes  
neither in fl. or fr. <sup>about 4 ft. high.</sup> very striking. All the strict branches  
thus clothed with large unisected, sepals, imbricated lvs. I  
searched vainly for fls. or fruit. Pap of Gaviota north of Sta. Bar

1439. Polanthes ? Summit of Silver peak, 12,000

Sep. 1874. Could make it out to <sup>be</sup> any spec. described  
in Bot. Cal. Not confertum, may be viscosum as  
it was very viscid.

1440. Spiraea ? Warm, almost-hot springs near  
Pyramid Lake. Nev. June, '87, snails entombed.

(Besides I have several odd forms of Brikelia  
and Chrysoopsis I'll not trouble you with. For  
you may be busy with plant from Parry & Pal-  
mer, ubiquitous & hereof new.

I, or some one, assure to get me appointed on  
any surveys, Hayden's or other, and you can  
conscientiously do so. I would be grateful for  
your influence.

If the P. R. off. pap. no. 1  
shall revisit San Bernardino Mts. & the desert  
near Sweet-water, & shall try to get Parryi &  
Chilanthus viscidus for sale.

Also shall revisit & explore mts. near San Luis.

I suppose you are finishing the supplement to  
~~1st~~ vol. Bot. Cal. and addenda to 2<sup>nd</sup>. Hope  
you will send me both — for their price. I want  
the latest editions of all such works, and will pay  
for them.

My head behaves itself very well  
this winter. & I have studied hard. A thousand thanks  
for soon clear now. I use the micro. & needles, much.

How do you like "Cone-bearers" in Pac. R.?"

My aged mother joins me in sending continued regards  
to Mrs. Gray & yourself.

Wearily but faithfully Yours.

J. B. Pennon.

**J. G. LEMMON,**

Sierra Valley, California,

Amateur Botanist, Lecturer, Microscopist and Collector in Natural History,

—AND DEALER IN—

*Seeds, Bulbs, Roots and Dried Specimens of Rare California Plants ;*

—ALSO AGENT FOR—

The most popular and useful Microscopes, Telescopes, and their furnishings, Scientific Books, &c.

Wilson, Cal., Sept. 1877

Completed in 1908

at Washington is, 1<sup>st</sup> vol. The  
case you were about to  
directed to package and of  
notes of Mr. Wilson,

I hope the 2-flowered Di-  
centria, the named Indidina  
the 3-flowered, the Scutella-  
ria, pink Chinospermum, the  
carnate-leaved Crucifer, the  
magnificent white Conspicuum  
re. more new. I write just  
to inquire if any new are, at  
all overlooked in the history of  
over-work.

I suppose Dr Engelmann has  
finished his work & turned.

His summer starts as a  
rest, with great interest, but  
not to leave, but to continue ill-  
ness, so he cannot take in the  
wisdom offered.

Yours sincerely,

*W. B. Emerson*

of Lilium Parryi, Expect  
\$5.00 more to be sent me soon.

By the generous influence of  
Baron Osten-Sacken a forester  
in Prussia sends for 4 lbs.  
each of the seeds of our forest  
conifers. Though too late for  
some species I am gathering  
seeds of some of the species.  
Snow a foot deep on the  
mountains.

We share your fears that Miss  
Plummer is ill. Have not heard  
from her in a month. Her  
last words were that she was going  
to N.Y. but letters should be ad-  
dressed to Dover, N.H.

My mother, the spryest of the  
family, sends warmest regards to  
Mrs. Gray.

Thanks for Baccharis Plummera.  
Have never been able to find other specimens.  
Perry, Palmer, Eaton, Howell, & Co. are  
in good luck - in wide contrast to  
yours sincerely J. G. Lemmon.

J. G. LEMMON,

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Sierra Valley, Cal., Oct 12, 1879

My dear Dr.

Many thanks for  
your kind letter of Sep. 17, fol-  
lowed by the Weed article and  
new "Contributions"

I have waited about reply-  
ing to your kind offer to sell  
a set of my plants in Paris, &  
see first if I had time to  
put up a set. I have  
just returned from a visit  
to Clarence King in San Fran-  
cisco. He declares that he can  
not employ any botanists or  
other naturalists except geologists  
in future surveys. I am  
greatly disheartened at his de-  
cision. Had I succeeded

in getting employment I  
was going to remove the best  
part of my large collection to  
Oakland where I could be  
hardy to pore over the old  
reports & post myself as to  
the botany of the interior.

There is a bare possibility  
of getting a position under a  
Surveyor in Utah for next sea-  
son, a possibility which will  
be decided before the holidays.

Meanwhile I am at home  
amidst my large herbarium  
putting up sets for local  
applicants, and I think I  
can put up the set you  
request.

I gather that the specimens  
ought to be perfect as far as possible  
so out of the thousands in  
stock perhaps I can only  
get 100, or 400 good ones.

How about *Conifer* specimens?  
You know they are bulky  
and heavy, they are also  
very interesting. I have  
collected a large stock of  
them (by some suggestion,) and  
have had no demand  
except from Dr. Engelmann.

You will have time to ad-  
vise me relative to these  
before I will be ready to send,  
as the task of selecting, labeling  
and packing will take several  
weeks - added to other duties  
that come between.

At your request, I will  
label and pack carefully.

If I can send by express  
the labels can accompany, &  
so save a deal of labor.

May I send by express?

Have sold 300 of my bulbs

J. G. LEMMON, ©

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Sierra Valley, Cal., Nov 30 1889

My dear Sir,

About this time  
you are finishing up the 2nd  
Vol. Bot. Cal. and are of course  
very busy.

I only stop now to go out  
to tell you that I am enjoying  
my residence & work here in the  
hope that I may there find  
more to do than has been in  
it.

So the volume of the  
Botany designed for me (by far  
more of all your publications) may  
be sent with the rest to your  
convenience.

Please keep me posted on all  
matters pertaining to Botany and



science in general, as I wish to  
improve every privilege of the  
city and the other the world up  
concerns special subjects with  
freedom & strength,

As to papers in order for  
the club, I find, on an admirable  
Lancet Magazine, several popular  
articles now being published  
in the International Record Union.

I have applications for several  
sets of papers and hope for more  
which will help students now  
and then I hope to make  
a living in the same way  
I have engaged in a central  
locality at Wakarusa, where my  
parents were to live & officiate.

George Patterson has just printed  
a 4 dollar worth of labor, and soon  
I hope to be at work upon the sets,  
your Parisian order coming at  
last,

I shall send you soon, a box  
of conference papers as you say  
go to no freight,

I did not think of the im-  
portance of deliberations and labels  
until Prof. Eaton sent back a  
large parcel to be labeled, and  
now Mr. Dingelbach is to be  
the reader.

What can I do to deserve  
Halsie's invaluable sympathy?

Well I am Prof. Eaton, Mr.  
Dingelbach and a very distinct that  
all are busy in the good cause,

I have that Prof. Patterson  
is on the way home via the  
river.

My mother is in with P. as  
regards to yourself, I have long.

Tristfully Yours,

J. H. Patterson,

**J. G. LEMMON,**

Sierra Valley, California,

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508 1/2, 15th St. } Cal., Jan 21, 1880  
(Oakland) }

My dear Dr. Gray,

I am recovered somewhat and am hard at work upon a new set of plants - the largest being the one for you.

How shall I manage with the labels? And such in with its plant (seeing all go as freight) or number both plant and label, which is much the longest job.

At present I am selecting the plants and copying in paper. The naming & labeling will take nearly a month as I am all alone in the work.

I am carrying at the top of my ability for I wish

to not proceed together and  
take an excursion down the  
Arizona in March, to meet  
Rev. E. J. Brown, at the very  
mouth of the Gorge.

After returning down to the  
University of course, studying  
plants and geology in June  
with no time to either examine  
them or to visit a library,  
here that it makes me re-  
solve to try to change my  
occupation next winter.

I hear that Prof. Wilson is  
determining the Granivores, Wood!  
Now we shall have the work finished.

By the way did Dr. Wasey divide  
with you the grapes sent him  
in '75? I had seen the arrange-  
ment, & I sent a large coll. I fear  
that I shall not get credit for  
them, unless Prof. W. knows of their  
origin. I shall hope to get some  
replied off to you in a month.  
Yours sincerely J. L. Morrison

J. G. LEMMON,

Sierra Valley, California,

Amateur Botanist, Lecturer, Microscopist and Collector in Natural History,

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2) 5/15/18 St. Cal., 7.10.18  
Cable and

Wahlm. 1

The P. & O. is a very fine ship on  
 the P. & O. line, and is a very fine  
 ship.

[illegible]

- The day was very much fine  
 & warm & considerable breeze blowing from the N.E.  
 and with a large quantity of rain and fog  
 on the 22<sup>d</sup>. The rain was very heavy and the  
 wind was blowing from the N.E. and the  
 rain was very heavy and the wind was blowing from the N.E.



**J. G. LEMMON,**

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Cal., . . . 18

1. The first part of the paper is devoted to a discussion of the general principles of the theory of the structure of the atom.

2. The second part of the paper is devoted to a discussion of the general principles of the theory of the structure of the atom.

3. The third part of the paper is devoted to a discussion of the general principles of the theory of the structure of the atom.

4. The fourth part of the paper is devoted to a discussion of the general principles of the theory of the structure of the atom.

5. The fifth part of the paper is devoted to a discussion of the general principles of the theory of the structure of the atom.

6. The sixth part of the paper is devoted to a discussion of the general principles of the theory of the structure of the atom.

7. The seventh part of the paper is devoted to a discussion of the general principles of the theory of the structure of the atom.

8. The eighth part of the paper is devoted to a discussion of the general principles of the theory of the structure of the atom.

9. The ninth part of the paper is devoted to a discussion of the general principles of the theory of the structure of the atom.

10. The tenth part of the paper is devoted to a discussion of the general principles of the theory of the structure of the atom.

**J. G. LEMMON,**

Sierra Valley, California,

**Amateur Botanist, Lecturer, Microscopist and Collector in Natural History,**

—AND DEALER IN—

*Seeds, Bulbs, Roots and Dried Specimens of Rare California Plants;*

—ALSO AGENT FOR—

The most popular and useful Microscopes, Telescopes, and their furnishings, Scientific Books, &c.

Cal.,

18



My dear Sir,  
I have the honor to acknowledge the receipt of your letter of the 14th inst. in relation to the matter of the  
of the same, and in reply to inform you that the same has been forwarded to the proper authorities for their consideration.  
I am, Sir, very respectfully,  
Your obedient servant,  
J. H. [Name]

**J. G. LEMMON,**

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515 1/2 St. <sup>Mar</sup> Cal., No 10, 1880

My dear Professor.

I have read with

interest about my paper,  
and am glad you saw them.  
It is, that Prof. Hillebrand  
is working them up.

Now all I want and the  
particular localities where  
I want my microscope col-  
lection in to Dr. Hillebrand for  
his collection.

But I will now give  
the localities of the <sup>my</sup> specimens  
collected.

From I in the Sierra from  
the Sierra to the Sierra from

A region of the Sierra  
from the Sierra



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San Bernardino, Cal., May 20<sup>th</sup> 1880

My dear Dr Gray,

Your scolding letter detailing my bad work with Dr Copson's plants, has at last overtaken me.

Well, well, it seems I am incorrigible. Did I blunder so badly? Really I lose all confidence in myself now, but worst of all you & Watson was put to the added trouble of examining & correcting the whole lot. Too bad!

This will frighten me out of ~~even~~ coming to you for information in future & so make a bad matter worse.

Am at last on my way

home to Oakland with a large  
lot of plants - a great many of  
a kind - for sets & herbariums.  
Cannot send you any in time  
for 2<sup>nd</sup> Vol. Bot. Cal., but will  
send as soon as can overhaul the  
collection.

Have just been  
over to the Molave on the ground  
of Gilia Parrya Gemmonia Cal. &c.  
Wind flora very abundant & large.  
The G. Parrya covering a large vil-  
ley & of three colors - blue yellow  
& whitish. The Gemmonia Cal. is  
quite a large plant - 4 or 5 inches  
across, but as small-flowered as in  
first coll. The Gilia Gemmonia  
on this plain of San Bernardino is  
often a foot high & broad.

It is Couba candida in abund-  
ance & secured a large stock.

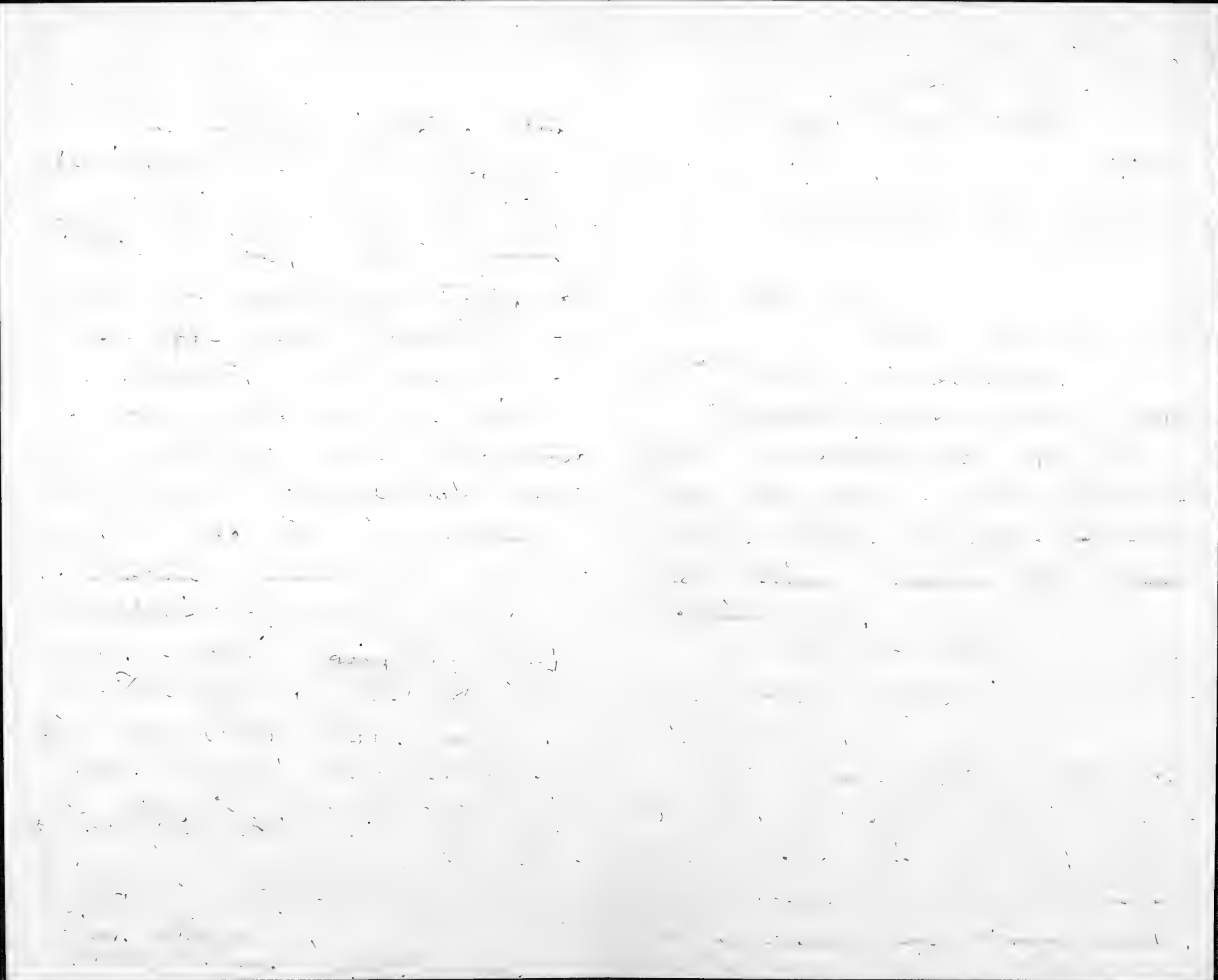
Could not find the Stenocallis on  
the Colorado. Directions too indefinite  
to have a dozen ferns of Arix.

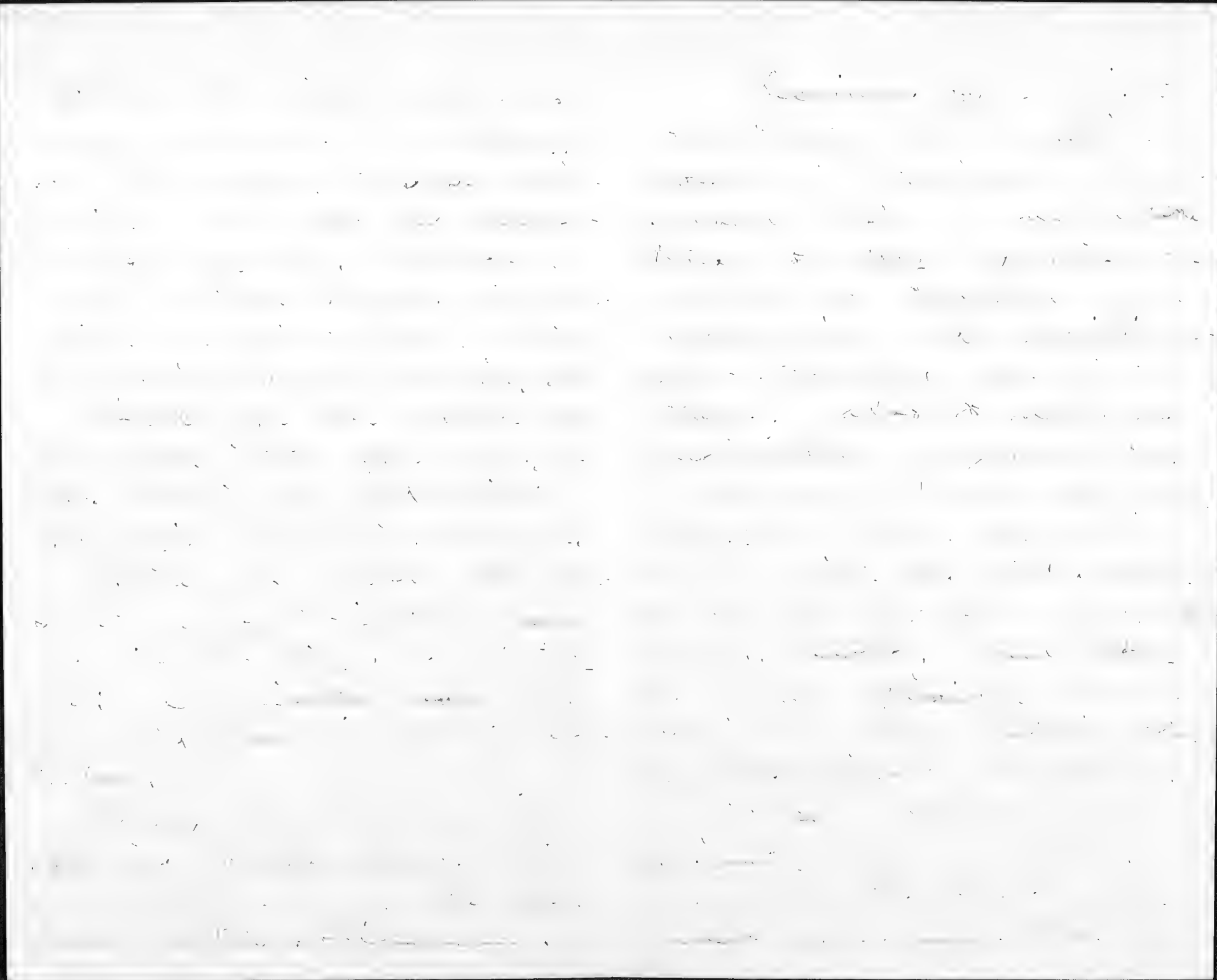
I enclose a specimen of Goodia -  
found on the Molave on Boulton's  
Ranch associated with Couba Gem-  
monia & several Gilias. Is it  
new to science? It was  
sent me two years ago by Mr  
W. B. Wright of San Bernardino, of  
whom I have often spoken to you  
in connection with his usefulness to  
our science. Should like to have  
him remembered.

Am all tired out & distracted.  
& hosing home out of the heat.

Will write you at length soon  
from Oakland.

In deep humiliation for my  
sins I remain  
Yours J. G. Gemmon





Dublin, Jan 11/80

My Dear Mr.

Your second letter relating to the plant which I found in just as I was about to write you ~~concerning~~ a different plant.

Well, so Dr. Coulson got to the point from which I send you right by a year. Too bad for my good friend Mr.

I collected a rather stunted fuller flowered plant from the Kobave desert's northern end, near Kobave station on the line of R. P. <sup>1875</sup> ~~1876~~ <sup>1877</sup> ~~1878~~ <sup>1879</sup> ~~1880~~ <sup>1881</sup> ~~1882~~ <sup>1883</sup> ~~1884~~ <sup>1885</sup> ~~1886~~ <sup>1887</sup> ~~1888~~ <sup>1889</sup> ~~1890~~ <sup>1891</sup> ~~1892~~ <sup>1893</sup> ~~1894~~ <sup>1895</sup> ~~1896~~ <sup>1897</sup> ~~1898~~ <sup>1899</sup> ~~1900~~ <sup>1901</sup> ~~1902~~ <sup>1903</sup> ~~1904~~ <sup>1905</sup> ~~1906~~ <sup>1907</sup> ~~1908~~ <sup>1909</sup> ~~1910~~ <sup>1911</sup> ~~1912~~ <sup>1913</sup> ~~1914~~ <sup>1915</sup> ~~1916~~ <sup>1917</sup> ~~1918~~ <sup>1919</sup> ~~1920~~ <sup>1921</sup> ~~1922~~ <sup>1923</sup> ~~1924~~ <sup>1925</sup> ~~1926~~ <sup>1927</sup> ~~1928~~ <sup>1929</sup> ~~1930~~ <sup>1931</sup> ~~1932~~ <sup>1933</sup> ~~1934~~ <sup>1935</sup> ~~1936~~ <sup>1937</sup> ~~1938~~ <sup>1939</sup> ~~1940~~ <sup>1941</sup> ~~1942~~ <sup>1943</sup> ~~1944~~ <sup>1945</sup> ~~1946~~ <sup>1947</sup> ~~1948~~ <sup>1949</sup> ~~1950~~ <sup>1951</sup> ~~1952~~ <sup>1953</sup> ~~1954~~ <sup>1955</sup> ~~1956~~ <sup>1957</sup> ~~1958~~ <sup>1959</sup> ~~1960~~ <sup>1961</sup> ~~1962~~ <sup>1963</sup> ~~1964~~ <sup>1965</sup> ~~1966~~ <sup>1967</sup> ~~1968~~ <sup>1969</sup> ~~1970~~ <sup>1971</sup> ~~1972~~ <sup>1973</sup> ~~1974~~ <sup>1975</sup> ~~1976~~ <sup>1977</sup> ~~1978~~ <sup>1979</sup> ~~1980~~ <sup>1981</sup> ~~1982~~ <sup>1983</sup> ~~1984~~ <sup>1985</sup> ~~1986~~ <sup>1987</sup> ~~1988~~ <sup>1989</sup> ~~1990~~ <sup>1991</sup> ~~1992~~ <sup>1993</sup> ~~1994~~ <sup>1995</sup> ~~1996~~ <sup>1997</sup> ~~1998~~ <sup>1999</sup> ~~2000~~ <sup>2001</sup> ~~2002~~ <sup>2003</sup> ~~2004~~ <sup>2005</sup> ~~2006~~ <sup>2007</sup> ~~2008~~ <sup>2009</sup> ~~2010~~ <sup>2011</sup> ~~2012~~ <sup>2013</sup> ~~2014~~ <sup>2015</sup> ~~2016~~ <sup>2017</sup> ~~2018~~ <sup>2019</sup> ~~2020~~ <sup>2021</sup> ~~2022~~ <sup>2023</sup> ~~2024~~ <sup>2025</sup> ~~2026~~ <sup>2027</sup> ~~2028~~ <sup>2029</sup> ~~2030~~ <sup>2031</sup> ~~2032~~ <sup>2033</sup> 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# Post Office

E. P. MARSELLUS, P. M.  
BENJ. HALL, Ass't P. M.

Oakland, Alameda Co., Cal., June 18 1880.

My dear Dr.

Coming to the office to  
mail the list of plants. I get your reg-  
istered letter with the \$50. from Dr. Copson.

I think the amount quite reasonable con-  
sidering the bad mark I made.

Hastily Yrs. J. L. Dorman

Oakland, Cal., June 11, '80

My dear Dr.,

At last here are the lists & notes of the most interesting of my arizonians, nearly 300.

Hope you and Prof Watson can see & determine them before you leave home. Perhaps will send others next winter.

Must hasten up to Oregon & collect - for a fortnight at Cross Bay, then return in time to meet the Vis of botanists in S. Fr. Hope for better health this season & learn from Dr. Engelmann about our trees. Please remember me to Sir Joseph Hooker, & to your wife. Hope there are many interesting things in the Coll. & cover some specimens

are meager - — just enough  
to enable a master of the  
science to recognize them.

I could not carry on my  
back great loads, & so often it  
was necessary to be satisfied with  
little or none. Of beautiful  
things - desired by amateurs I  
generally made a desperate effort to  
get a great many. I have  
a great many of Barbica &  
Gemmonia & Calochortis &  
other rare things.

Am very grateful for post  
from my dear Dr. and in this  
connection I include your <sup>last</sup> most  
useful chastening letters, and  
hope with greater care and  
better health I may merit a  
continuance of your generous  
friendship.

Very truly Yours J. G. Gemmon

**J. G. LEMMON,**

Sierra Valley, California,

Amateur Botanist, Lecturer, Microscopist and Collector in Natural History,

—AND DEALER IN—

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Oakland Cal., July 13 1880

My dear Dr.

Your late letter duly received. Thanks.

Am very sorry that my plants arrived too late.

Dr. Perry kindly looked over the duplicates and determined many of them, but the new ones to him must be neglected until some one in possession of a suitable herbarium and all the necessary literature (which means Dr. Gray or Prof. Walton,) can look at them.

Dr Engelmann says he cannot surely determine at this distance

Dr. Parry thought a few of my plants so peculiar that he suggested that I send bits of them in a letter.

№103 A composite in alkali soil of Fuller's Spring, near Tucson.

184 A Collinsia robust, low (2 in) many ascending branches Mohave desert, on Houlcomb's ranch, with Gilia Parrya, Gutierrezia, Gammelia &c.

185 Elytraria — ? Patagonia Noto x Tombstone hills.

288 Astragalus — many stems, med, forming a large mat, Santa Catarina Noto, near Tucson, with the new fern, Nottolera Gammelia Eat.

Please take the time to determine

& greatly oblige Yours J. G. Peckham

them to Hutchings formerly of  
Yosemite, He pays what he can  
afford. The avails will enable me  
to stay here and study this winter.

Is there anything I can do  
for you here? Give me some  
information, I want to work.

Applications come for me to col-  
lect this and that for the Paris  
Ex. I remember our Centennial &  
decline with a bitter recollection.

But little rain, yet, no snow in  
the Sierras. Apprehensions of another dry  
winter & harder times.

Let me still enjoy your letters  
& friendship. In the Spring if well  
you will hear of me exploring away  
up north. Please give regards to  
Mrs Gray, and accept profound  
steem from Yours &c: "J. S. Emmons,

Hameda, Cal, Dec, 6, '88,

My dear Dr. Gray;

Your Postal  
inquiring about my "Hooker"  
Gray" article in the Pacific Ru-  
ral, has just reached me via  
Sierra val. I enclose the ar-  
ticle herewith. Many thanks for  
the compliment. I did not  
send you the a copy when first  
published because I got the idea  
from a conversation with you on  
Lake Tahoe that such things from  
me found a place at once in your  
waste basket! Well, well, the de-  
ferred compliment is the more prized.

The copies of the Rural and of  
the other papers printing it here, are  
all exhausted. I had to get this

from a private file by special  
favor, The editors feel very  
good over it but not quite good  
enough to give me a dollar for it,

Good news from Dr. Parry & his  
noble wife, ~~Ethel~~ Parry is good.  
He sends me seed which I have  
distributed here in good ground  
for commemorating the good Dr.

How sorry I am that I did  
not report the disparity I saw  
so plainly last winter with  
the microscope between the form  
I collected down on the Sweet-  
water (just a little in advance of  
Dr. Parry,) and the *Heilanthus* ~~Coch-~~  
era as described by Eaton. I had  
fine specimens of both but neglecting  
to report discrepancies, left it to Mr  
Savenport to work up and name,  
I am now right,

Now about the photographs.  
you promised of yourself Mrs Gray  
and Sir Joseph? I found plates  
of yourself & Hooker in <sup>for sale</sup> Surpawicz  
placed among celebrities of the  
U.S., but yours was named.  
"Sir Joseph" & vice versa, I was  
invited to sit, and <sup>so</sup> enclose you  
a copy. Do you recognize?

I have been on a heavy strain  
all the time here, talking with  
inquiring students, arranging  
the plants of the Acad. museum  
into orders, studying a lot from  
Arizona with Dr. Kellogg, con-  
fering with Prof. Bolander, &  
Harry Edwards &c. Of course  
my mind is all confused now,  
but I'm laying <sup>in</sup> good for thought  
and elaboration by and by.

But none for my collection of  
Comifer seed, and have just sold



John Smith, Esq.

Mr. L. S. [unclear]

with [unclear] and [unclear]

the [unclear] of the [unclear]

from [unclear] [unclear]

Please [unclear] [unclear]

Yours ever,

[unclear]

August 10, 1881

My dear [unclear]

On the [unclear] to Silver Valley

and [unclear] off to [unclear]

and [unclear] [unclear]

Looking over [unclear]

and [unclear] [unclear]

at this [unclear] [unclear]

and [unclear] [unclear]

1. *Phlox* *glandulifera* (L.)  
 2. *Phlox* *subulata* (L.)  
 3. *Phlox* *paniculata* (L.)  
 4. *Phlox* *paniculata* (L.)  
 5. *Phlox* *paniculata* (L.)  
 6. *Phlox* *paniculata* (L.)  
 7. *Phlox* *paniculata* (L.)  
 8. *Phlox* *paniculata* (L.)  
 9. *Phlox* *paniculata* (L.)  
 10. *Phlox* *paniculata* (L.)

The very best  
of friends to the family  
and the children.  
I have been thinking  
much of late about  
the future of our  
country.

I have not yet received  
 your letter of the 11th  
 and am sorry to hear  
 of your illness. I hope  
 you will soon be  
 well and able to  
 write again. I am  
 very truly,<  
 Yours,  
 623

Containing all the full  
and complete with the  
full list of every fine  
book and manuscript.

c) The road, the house,  
the garden, the trees, the  
flowers, the birds, the  
insects, the animals, the  
plants, the rocks, the water,  
the air, the earth, the sky,  
the sun, the moon, the stars,  
the clouds, the rain, the snow,  
the wind, the lightning, the  
thunder, the fire, the ice,

I have been thinking of you very much lately  
 and wondering how you are getting on. I hope  
 you are well and happy. I have been very busy  
 lately but I will try to write to you more often.  
 I have been thinking of you very much lately  
 and wondering how you are getting on. I hope  
 you are well and happy. I have been very busy  
 lately but I will try to write to you more often.

your pest? Damaged the  
valley \$275,000. & This year  
not yet estimated.

Our scourge is the *Cedipoda*  
*atrox*. Have determined just  
now two more of his enemies,

One a fat white grub eating  
the eggs is a species of *Pompilus*  
or hairless-bee fly; another  
stinging and dragging grown loc-  
usts into holes is a *Pompilus*  
or digger wasp.

Glad I got Greenella, so  
pretty & proper for the keen-eyed  
Reverend.

Am greatly tied up and down  
between going to meet the botanists  
at Shasta or accepting an invi-  
tation to accompany John  
Kear on a two months trip  
to Alaska, starting on the 25<sup>th</sup>.  
I wish the latter scheme was  
fixed for next year.

Gratefully but hastily

Yours

J. G. Lemmon

J. G. LEMMON,

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Sierra Valley, Cal., July 18, 1880

My dear Dr.

Three large  
sheets finishing the ari-  
zonians! My dear  
Doctor you overwhelm  
me with kindness.

To toil through them  
all alone, and when so  
hard pressed with other  
work, is really too generous.

Added to this is your  
honorable mention! and  
furthermore, generous dedi-  
cations! Heaven bless you!

As I am away up  
here without my notes of  
the duplicates I do not re-  
call No 103 the new Acti

molepis. But if it is pretty  
and would be a fitting tes-  
timonial to the scholarship  
worth and generosity of  
Hon B. B. Redding, I beg  
you to please dedicate it  
to him.

Should any others of the  
Arizonians (not pretty) be  
found distinct please let  
them bear my name &  
connect me with the  
peculiar flora of that far  
region, & show at least  
to botanists that I have  
labored and endured much  
in the advancement of our  
amiable science.

Am busy with locust  
problems again, My old  
home sadly despoiled.

Have I told you of the  
work of this evening for three

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Oakland, Cal., July 31, 1880

My dear Dr.,

Long ere this reaches your hand I hope you will have read my letter from Sierra valley in which I acknowledged the receipt of your long list of determinations.

Here come your letters of anxious inquiry in regard to them, and cause me sorrow that you are so concerned. The letters followed me about the country & so were long in coming to hand.

I hope soon to obtain permanent quarters, but

it is always safe to drop me at Oakland. The S. O. clerks and most of the citizens know me so that mail always reaches me. I arranged while at home to go up again in October for my aged mother and keep her here out of the snow in future. She was very sick last winter & declared that she could not stand another.

It will require diligent exertion to obtain the requisite means of subsistence. I fondly hoped for business in the way of collecting medicinal plants but others have rushed in & eastern dealers get supplied to my detriment.

So I must advertise and work up and sell off my

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(~~Last~~ Sheet) Cal.,

18

plants again this winter  
with not half as many  
species to choose from.

This lovely state is so  
damaged by *Pharmacia* that  
all business is deplorably dull.

Luxuries are abandoned  
& my plants are not eatable.

I plan in vain to arrange  
a series of talks in schools;  
only regular teachers can be  
paid & I cannot endure the  
confinement of indoor life  
every day.

So I must look abroad to  
your prosperous land for assistance  
and certainly in the past I have  
not looked in vain. All  
ready applications come for

my new ferns. but how  
few the number and how  
little the stock to distribute!

Dr. Webber has totally  
failed me I fear. His real  
property all mortgaged to pay  
old debts. No pension for  
certain. altho' my case was  
made very clear & strong.

I did not go (as you see) with  
John Koir. for want of funds which  
I hoped to obtain of Dr. Webber.  
Had a good visit with Koir  
& he makes me promise to  
accompany him next season.

I hope to meet the bota-  
nists at Ashoka, & pass some  
time with them there and in  
the south, - if agreeable to  
them. It is hard to penetrate  
the teacher's ring here & get em-  
ployment but perhaps if I get  
better posted I can succeed.



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(3<sup>rd</sup> Sheet,) Cal., 18

Glad to turn to botanical  
determinations again,

So the *Carex* is new. I  
have no leaves.

Will put up plants in letters  
with pasteboard hereafter.

Cannot make out the specific  
name of the *Astragalus* sent  
you & do not have the VI Proc-  
edure. Head, is it nothoxy?

The plant is large prostrate,  
covering a space of a foot or  
two. I took it for *A. bullalis*.  
The *Collinsia* (No 184.) puzzles  
me much. One called *Bartsia-*  
*folia* at Crafton grows on  
hill-sides in shade. This  
one in open bare level sand  
of Coulton's ranch, Colosse, withing

a few rods of so many other  
new things (Carya, & Parrya.  
Lemmonia &c.)

In the course of the  
winter I hope to find several  
other forms of Arizonians  
to be submitted. Already it  
seems that the collection was  
not so bad as you thought  
at first.

You see I come upon quite a  
lot of plants that were new  
until Greene got them. ~~Sorry~~  
you cannot you give me credit  
on the new genus of Greenella  
(since my specimens help to confirm  
it,) by writing Greenella Lemmonia  
in publishing? It grows upon  
me from year to year that honors  
are the principal reward - next to  
the valuable friendships formed.  
There I'll let you rest.  
With profound regards,  
J. H. Lemmon.

Wilmington, Del., Aug 14, 86

My dear Dr Gray,

At last I am determined to take time to discuss a little some of the mixtures sent you and most of which you kindly determined at the expense of your valuable time & effort.

But several are <sup>still</sup> ~~incomplete~~ and I write for a long relation of my list of "L. G."

No 89 *Senecio* - now near Ft. Howell, & Tucson, is a large and showy plant, with several long stems branching from the base; <sup>recumbent;</sup> lax, and ~~branching~~ <sup>erect</sup> outward, the fls. quite showy.

No 122. *Senecio*, - Another S. from Santa Catalina Mts. above Ft. Howell, &c, Evidently a biennial, robust and showy. Only a few plants met with.

No 103. *Achillea* - the one sent you after word in letter you speak of as a *Beria*? I hope you will name for Mr. Ledding as I requested.

It is a pretty plant of the Tucson plains.

over

No. 112 "European type of *Eoas* or *E. H.*,"

The variously the scales of the involucre are clothed with wool, only on the outside of the outer, and the tips of its inner, certainly not *E. canescens*.

No. 113, *Burkea* — found in among tall shrubs which caused perhaps, the difference of appearance from *E. gracilis* (134).

No. 114, *Burkea* "you think" is a small form of a big plant? Not so, it was the same, at various altitudes of the mountains of Patagonia.

No. 115, *Kama* — You find the zone of snow. This is a remarkable plant, like *Stemona* — it grows in the mud of a drying lagoon near El Rio, on the E. side of the Colorado. It can be most readily identified as the plant now so abundant and viscid, I have looked again.

No. 118, *Polimnia Parryi*, I called it small too, but Mr. Parry thought not like.

No. 119, *Polimnia portaeifolia*, is so different in habit from the one of Cerro Leon that I must examine the latter for characters at first opportunity. It seems to me that it must be *E. bart.*

No 212, *Stictolima trigonophylla*, I am very sure has a large perennial root.

It is found on the bank of a creek in the mts. near Ft Lowell.

No 230, *Athyrium Lindavicianum*. Boot-look 3-4 inches <sup>near Ft. Lowell.</sup> thick. Not eaten by the Tucson Indians, so Gen. Lown thinks, tho' so large & fleshy. No one knew of it there about.

No 274, *Vilpa heterophylla*. "gone crazy" does Thurber say. How strange! 8 or 4 feet high and so tough and large. There must be a mistake somewhere. (Just write to Thurber.)

No 278 *Carex Lemmonii*, Boott, grows luxuriantly in "Las Cuevas" canon of Sanora valley. forms large clumps of <sup>large & long</sup> many leaves near running water from a hot calcareous spring tho' cool when reaching the grass. Just write to Boott.

No 288, *Astragalus mollis* forms fine large mats on the ground of a certain high valley called Muller's, in the Santa Catalina Mts. near Ft Lowell.

There, these few notes must suffice for this time. The plants you omit to name! *Criogonum*, *Euphorbiaceae* etc, I will submit to E. & P. over!

There are a few more excursions to make yet - this season, and my preparations are not yet complete for winter so I will be too busy to make up sets of flowers and ferns until December, when you shall have the new species of ferns collected; also I will make up a set of the best of my plants for Dr. Copon.

Dr. Parry writes from Portland reporting a fine trip with many good things to see. He is now exploring St. Johns. He has no plans to expect either to follow Prof. D. & Dr. E. down to Alaska some time after the 20th or to come by sea directly here, then go up with me, etc. So I don't know what he'd do myself. Whether to meet the two on the 20th or to wait for Dr. P. But the pines and ferns of that region I must look after, sure.

Here comes your card telling of sending me letters & drill terniary etc, which it seems, I have omitted to answer as received. Yes I got everything, no matter how directed, or where. I'm sorry to have troubled you by my silence and the latest question with other exciting topics have been forced upon my attention lately. I'm proposing to open a colonial museum here this winter & hope for classes in botany. But the hard times, dampen enthusiasm, and prevent enjoyment of intellectual diversions. So perhaps I shall fail to clear expenses. Miss Blommer is slowly gaining. Sends profound regards. Yours etc. H. B. C. C. C.

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Sierra Valley, California,

Amateur Botanist, Lecturer, Microscopist and Collector in Natural History,

—AND DEALER IN—

Seeds, Bulbs, Roots and Dried Specimens of Rare California Plants;

—ALSO AGENT FOR—

The most popular and useful Microscopes, Telescopes, and their furnishings, Scientific Books, &c.

Oakland, Cal., Aug 17, 1880

My dear Dr,

Your favor of the  
9<sup>th</sup> at hand, Thanks,

If you have written me and  
named the Viburnum from Au-  
burn I've lost the letter, as  
I don't know what you call it.

Is the Astragalus notthogii he  
is exceedingly interesting with its  
long, subulate beak to the seed,

Wrote you of its locality the  
other day,

The rays of Greenella are not  
pure white, but creamy white with  
a purplish tinge at base, outside.

As I said I hope more  
of my Arizonians will prove  
distinct. So much depends on

influence and notoriety in  
this naughty world,

I've been very careless of  
this subject and am poor and  
despised in consequence, tho' I  
<sup>have</sup> had the satisfaction of bringing honors  
& worthy persons. Since Dr.  
Webber has lately been overruled &  
compelled to cheat Prof Case &  
I out of honest dues, it makes  
me more cautious about soliciting  
honors --- until one's career is  
closed! But Mr Redding is with-  
out doubt a worthy man and  
I'm sorry the Actinolepis Laem-  
more was not named for him.

(By the way Mrs Ames  
(still one of the best of ladies,)  
is fearful that in the dis-  
tribution of 2nd Vol. Bot. Cal.  
she may be omitted.

Please don't forget the  
good woman struggling with poverty.



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(2nd Sheet) Cal.,

18

From the remarks made  
by you and by Mr Canby in  
regard to my last season's  
Coll., I have concluded  
to offer my present  
Coll., for following rates, &  
shall issue a circular soon,

Set of Phanogams of Arizona  
and elsewhere Pacific Coast;

\$7.50 per 100,

Ferns 10.00 " "

New " .25 each,

I hope to get some foreign  
orders, but the most I shall  
attempt to sell mounted in books  
for local customers,

And so you expended \$2000  
in publishing 1<sup>st</sup> part Flora N. A.,  
with but little return for cash  
spent - and nothing for the arduous  
labor! Will old May, and the  
other states of proud old N. Eng.,  
suffer you to go unrewarded?  
For shame!

I go up to Reno to-morrow  
for a few days study of its locust  
problem, for the prep. - all for  
the benefit of my neighbors and  
the advancement of science,

I go again in Oct. for  
my mother & live with me,

No late news from Parry &  
the rest. Expect that I can  
not go up & meet them at  
Shasta for want of time, but  
go up with Parry later, & get  
pine seeds, & ferns.

Yours &c., J. D. Benbow.

Leimmon Herbarium,  
Oakland, Cal. Jan. 21, 1881.

Prof. Watson—  
Dear friend

We wish  
that you may have reached  
home in time for the fes-  
tivities of the Holidays,  
and that you are in  
excellent health; that  
you will be well-blessed  
in the coming year botan-  
ically & in every other way.  
We had hoped to see you  
again - Alas! were you  
at the prospect of our worry-  
ing your overworked brain

with questions in reference  
to that big Drig in Cal.?  
Well, we had resolved not  
to do anything of the kind.  
Even though we were hunger-  
ing and now starving for  
needed information that  
lies between the (to us) scales  
covers of Cal. Bot. Vol. 2. What  
is the matter that we do  
not have them, is our daily  
distressing cry! In the  
meantime, we are at work  
in Vas. Cryptogams, filling  
out orders from various di-  
rections - and while so  
doing have made up a  
set for thee and send

by today's mail.

In the set are the new Leims  
and, as you know, some are  
so fragile that it is nearly  
impossible to get them  
perfect. But with care they  
will hold fairly on the white  
herbarium-mounting sheets.  
We could not send you  
the Noth. nisea, too meagre -  
Has Dr. Gray returned?  
My regards to Dr. Goodale  
who was so helpful and  
kind during my visit to his  
summers place -

Yours truly,

L. A. Phummer-Lemmon

Gold Camp, Cal. Mar 7/8.

My dear Professor,

Many thanks

for 2nd Vol, Vol, Vol, which  
came several days ago  
a week.

I wanted to tell you I was  
hoping my day would come

might think up a pack-  
age of plants we wish  
you to have. They were

collected in Arizona, and  
at, Tex, last season and

now as several other  
botanists are heading  
into that region. I

am very apt to lose the  
credit of first discovery.

Some of them that  
were collected early, i.e.  
in March & April '88,  
were packed up hurriedly  
by Dr. Gray just before  
he left home, - and he  
detected (as you know)  
several distinct species.

A great many he did  
not look upon as time did  
not admit of examination,  
& he referred me to  
you & to Dr. Perry and  
to get them. <sup>later</sup> These gen-  
tlemen were too hurried  
as you remember (also  
my Coll. was not in or-  
der for exhibition, fully.)  
so my plants went  
unexamined.

But worst of all had  
luck for me, the later  
Coll. made in Aug has  
had scarcely any attention.

Without all the litera-  
ture of your herbarium (or  
the plants) we can tell  
nothing certainly on this  
Coast, so we grope and  
stumble.

Now we are about starting,  
wife & I, on a grand col-  
lecting & note-taking tour  
down along the R.R. and  
to buy in stock for next  
winter's work. But before  
we go we must (in justice  
of my labors of last season)  
send off to you a selection  
of my finds before seized  
by strangers.

Please give the plants as  
careful an examination <sup>possible</sup> as

and report,

We have arranged to have  
our mail follow us, thought-  
ing so hope to hear from  
you soon.

We have given the farm  
a good study this winter  
because the literature is  
so full and accessible.

Last Monday eve my  
wife read on to pay upon  
the Pacific Road. Farms. be-  
fore the Acad. of Sci.

We contemplate getting  
out a manual on them  
next winter, accompanied  
by a classified list, giving  
localities, botanical names &c,  
do you approve?

Best regards of wife & mother,

Yours cordially J. G. Burman

Paul, Eugene, Ad. & William  
Hawley St.

April 20, 1901

[illegible]





P. ad.

I'm sorry I did not especially request some of the new things from the Santa Catalina should be dedicated to my wife who had such a terrible experience in the several attempts to climb the brittle peaks, and who is equally entitled with me to the honors of that trip. I should only more good things yet appear in that coll; please remember her and her arduous labors.

We hoped so fondly for a new fern that might be here? but Eaton reports only new ones to be Woodia obtusa, var. W. obtusa, straight and W. Mexicana.

J. G. S.  
1881.

Oakland, Cal., Nov. 26, '81.

My dear Prof.

Many thanks for determinations of our spring gathering of Anzianians received the other day.

The few new things in the large package show that that field around Santa Catalina is about gleaned out.

But the Eragmus may yet show up some more upon later examination, as you say. Glad to learn (officially) that Dr. Gray has returned & we thank him for the new stories.

We have some lovely single-flowered ones from the Flint - Catalina etc.

Let me give a few notes on some of them we have lately learned.

Now Greene thinks the  
stragulus No 140 is but  
" Greenii

The others he yields with  
gracefully.

Dr Parry has gone south  
before seeing the Lagotis  
Parryi, which we now much  
regret.

In regard to the sticta  
Leniens No 223, upon which  
Dr. Gray does not pronounce, was  
not the specimen - full enough?  
That is a very beautiful species  
to which we are attracted.

We are sorry if the specimen  
sent is not sufficient. If such  
is the case we will send an  
other, a foot long with 3 heads,

(Over)

In the note of the re-  
quest of Dr. Thompson to send  
us a fine package  
of our best things we send  
them to you with the hope  
of indulgence.

Both were so badly tired  
and on the last trip that we  
recover slowly. My little  
wife bears up as brave as an  
ever but in many ways to keep  
at work but it is a hard  
thing. It seems quite  
like you are in condition  
now regards to yourself and  
your son.

It will be some time be-  
fore we can forward the next  
big lot from the Chiricahua  
mountains. Dr Parry & Mr Greene  
has looked up materially.

With due regards,

Yours &c,

W. B. F. Johnson

only read paper before the  
dead, on the trees of the  
coast, giving labels on dis-  
secting paper on from them. Iri-  
zoma trees, while I sent every-  
thing East for determinations, &c.

In case with which Crosby,  
Tringle, Parrish, Packinister &  
others got their late findings into  
print was vividly portrayed. While

I had to confess that plants  
sent East last spring were  
only just now <sup>& not yet printed</sup> reported upon,  
and now comes a Postal from  
Prof. Watson announcing that the  
very distinct Senecio we found last  
May in the deer-park on the top  
of Santa Catalina is S. Rusbyi Greene.

Too bad! I hope for some  
new things yet from that lot  
& that you will remember the  
merits of my wife, and that on  
this our wedding trip she was espe-  
cially zealous, active & successful  
in planning and executing the de-  
tails of the bilious & arduous  
exploration of that mountain for  
over 5 weeks.

Oakland, Cal, Dec. 1, '81,

My dear Dr. Gray,

Welcome  
back to America! We are  
rejoiced to hear from you  
again and to know of your  
renewed health & vigor  
as evidenced by the work done  
on our Spring Coll. of Ari-  
zona plants in the hands of  
Prof. Watson. Long may  
you flourish in the land you  
have so enriched by your ar-  
duous labors, &c., &c.

I come to you thus only  
for comfort & complaisance in  
a matter that troubles me  
more and more every day.

Hillogg, Harford, Moore and  
Harkness of the Cal. Acad. of  
Sciences are very bitter against  
me because I still continue  
to send my plants to Harvard  
for identification.

And now Mr. Greene turns  
violently against me. Some  
time ago when we first arrived  
home from Arizona, I visited Mr.  
Greene & Dr. Parry & came in &  
looked at our nice things. They  
did so & kindly indicated such  
things as they were familiar  
with and also conjectured what  
were new. Mr. Greene was  
very keen & displayed no hint of  
familiarity with the plants  
and often wrote "N. sp." under  
them. He did not ask  
for specimens of things to de-  
scribe, but neither did we  
ask him to take them. Unlike  
Dr. Parry we thought his visit  
one of friendly avoidance.

Now he comes out & openly  
tells me that "to send my  
plants East to have them named  
after he has indicated the new  
species is a species of meanness".  
(He did not finish the sentence.)

How we were entirely in-  
nocent of any thought of wrong.  
Dr. Parry always said pleasantly,  
"Send this to Gray & tell him!"  
so & so. Perhaps we have  
made a great mistake in not  
recognizing the ability of Mr.  
Greene and on me only not the  
fact, & would have divined his  
desire to name & describe our new  
things. But now it is too late  
and he is busy at work upon  
other things received later and  
rushing them into the Botanical  
Bulletin. Yesterday just before  
he insulted me at its close, he  
said, "Rusby, Parrish, & Pringle  
send me things that are grow-  
ing only last year and now  
they are published." "Yes I pub-  
lish more new things than  
Watson, Engelman, Eaton, Por-  
ter, Vasey and all other botanists  
have for the last four months".  
Then Dr. Kellogg sharply up-  
braided me because I have

-elliptical, light orange; pappus  
nearly as in the other. Plant except-  
that the longer scales of outer arches  
are purple, and <sup>all of</sup> the short scales are  
more <sup>irregular</sup> in length; achenes  
distinctly 4 or 5 angled, with sharply bi-  
sute especially on the angles.

Now I must admit there are but  
few satisfactory structural differences  
but the general look of the plant,  
the differences of leaves, peduncles, involu-  
cre & ligules may perhaps prove her-  
monous; then its wide removal  
from San Luis Potosi gives hope.

I have a beautiful white Gentian not  
described in your Synopsis, also a large  
purple Lobelia, & several other things.

Perhaps I'll describe some of them and  
send to you for confirmation.

I send other specimens of that new Genus  
that was collected during my first exploration  
of the Catatula & which you named for me  
but which I believe is not yet published.

Enclosed also is the *Juncea*<sup>or</sup> of  
the *Sphicalmas* for Watson,

It will come the rest of the  
*Phragmites* - in a few days.

The *Greenland* have already gone to St.  
Thurber, My wife & mother join in  
continued regard to yourself, wife & Mother  
yours &c. *Wm. Greenman*

2

Rich. Conn. 22, dear Dr. me. know  
that after G. still makes mistakes  
and is now wildly rushing every-  
thing strange to him into print,  
but you see how often he hits  
a new string, and he is fast  
becoming truly a very suc-  
cessful authority.

While I am here grubbed  
along emburroed by poverty,  
sickness and, I confess, great ig-  
norance, am still only a  
"Collector", and Greene, Jones  
& Co., are carrying off honors  
that perhaps I might shoulder.

I have now several things  
that I know are not described  
in any works on this coast &  
the temptation is to describe them,  
submit my ~~descriptions~~ to you  
then ask you to publish - if  
meritorious - & allow me to stand  
as an author. I will enclose



before mailing this. some such descriptions & hope they may reach you & the publisher before any others who may chance to get the same plants later.

The *Fagelia* (No 203) you call with a question *F. Parryi*? is I think, quite distinct and if I point out valid distinctions, will it be nothing amiss if I request you to publish under my name?

By the kindness of Dr. Parry I am enabled to have for temporary examination a genuine specimen of *F. Parryi* in possession of Dr. Kellogg & I make the following comparison:

<sup>hoping</sup> Assuming that it is not a Mexican astray, (of which you and Bentham only can judge, certainly not Mr. Greene!) I proceed to assume

that <sup>it</sup> is undescribed if not Parry and <sup>determine</sup> describe from specimens now lying before me.

(203) *Fagelia Parryi*, Gray. (No 204.)

Perennial, robust, branching at base, puberulent; <sup>odd</sup> lvs. <sup>pinnae</sup> the lowest hair very small, the terminal large.  $\frac{1}{2}$  to an inch long, all elliptical serrate with attenuate teeth; peduncles long 4-6 inches, robust, fish-bone at top, naked, distinctly many striate; involucre campanulate,  <sup>$\frac{1}{2}$  inch broad & high</sup> with a narrowed border, eight-toothed, the teeth cuneate, white-tomentose <sup>within and</sup> on both sides, without; ligules 8, broadly elliptical 8-9 lines long; pappus of 1-2 subulate setae 2-4 lines long and 3-4 short oblong scales, achenia long, 3-4 lines, and 4-5 striate.

(203) *Fagelia Plummera*, Lammner.

Perennial, tall & slender, all its parts except peduncles longer, these short, slender, beist with bracts about 10 striate <sup>3 lines broad & 10 long</sup> peduncles involucre narrowly tubular, with more abundant and larger glands, & teeth which are but slightly puberulent; ligules 8, longer <sup>without the stem</sup>  $\frac{1}{2}$  inch; narrowly

will not attempt to describe & publish anything sent to you. Only a

Remembrance of  
a Lobelia  
& a Gentian  
which I  
have re-  
ceived.

Oakland, Cal., Dec. 10, 1881

Dear Dr. Gray & Prof. Watson

At last we

have cleaned up the Briarions and  
sent you herewith two packages.

I have only occasionally affixed dates  
to my notes because the plants were all  
collected in a few days of the latter part  
of Sept. & first of Oct.

There is so much pressure brought to  
bear upon me here that I have begun  
to describe plants - just a few - before  
the Acad. to be published in our "Mining &  
Scientific Rep." of San Francisco. The  
little I shall do I shall try to do well, and  
so hope not to trouble you any at Cambridge.

Please keep us within your friendship and  
confidence, always advising us or correcting  
us upon every occasion.

As usual health returns we both are  
hard at work, interesting classes and dis-  
tributing plants.

My "Systematic List of  
the Pacific Coast Ferns including Arizona" is  
now in print, while Mrs L. is intent  
upon publishing soon a "Manual of Pacific Ferns"  
with illustrations & popular descriptions.



I learn that Dr. Engelmann is still  
working over my full specimens of a *Cypripedium*  
from the Chiricahua Mts, He now thinks  
it a new species & he calls it *C. cory-  
pholoca*. Beautiful name! I wish it was  
in my power to protest against my own  
names. When I read, recently, a description  
of this tree before the Acad. the President tap-  
ped me on the shoulder & said he believed that  
it must be distinct from *Arizonica* and  
that it ought to be named for me. Since  
I had <sup>done</sup> made so much for its discovery.

I put a package of the specimens and  
new ferns into the hands of our British Consul  
lately & he forwarded to New, some considera-  
ble indicated by Sir Joseph Hooker.

Mr. Pringle has just come down from  
Oregon & gone home to VT via the I. P. R.R.  
He returns in Feb. to Arizona & begins a  
second campaign. It fills me with joy to  
meet with such strong, hearty, always well  
as Pringle, Greene & others. Another reason we  
must be able to get animals & <sup>not</sup> men ourselves out  
so fast. Mother is with us active and happy  
as usual. Tell me my little busy wife send  
continued regards to the hard workers at Cambridge  
in which I heartily join.  
Yours  
A. C. Engelman.

P.S. I mailed you my little "Flora of the Pacific Coast" just out. I've taken the liberty to have him in each of clipes, to name several new varieties, & introduced one species of *Woodia*. Prof. Eaton almost decided it new. Description sent to Coulter's Gazette arrived 2 days too late for Dec, etc.

Oakland, Cal., Dec. 21, '81.

Our dear Dr. Gray,

Just as I was about to write you in response to your letter received yesterday, here comes a second most welcome letter of the 14<sup>th</sup> giving determinations of *Compositae* including a nov. gen. which you have graciously dedicated to my wife as *Parnassia florifunda*! We have just held a grand celebration, mother & I dancing around the room with "Amabilis" as the central figure alternately shouting for joy and weeping with gratitude.

We all thank you dear Dr., for this crowning honor;—and how nearly it was lost! Really this comes as a reward for our fidelity to you and Watson.

The letter I was about to write you at this sitting was in reply to your first one in which

<sup>you</sup> x. disguised the whole subject of my unfortunate  
relations with the Society, my dimly expressed  
desire to begin describing plant species, &c, &c.

The kind fatherly way you treat these  
topics touches me deeply and I am heartily  
sorry I troubled you with them.

I can well understand the importance  
of your being enabled to give most atten-  
tion to the "Synopsis" and to the general  
oversight of our botany. No other head  
in America can do this—especially ~~not~~  
no head or number of heads away from  
the immense Cambridge herbarium.

Any botanist by even a cursory examination  
of the volume "Gnaphalium & Composite" can see  
what labor has been put upon our N. A. Flora of  
late years—and nearly all by your fertile brain.

When I think of this and also, when the  
reflection comes "What if the Master is not  
allowed for any cause, to finish his great work  
his thought suggests me & I feel like never  
troubling you again.

But here, at crop-purposes with this thought,  
is the memory of past and continued kindnesses,  
favours that none other would render, embolden-  
ing me to ask you to please finish at least  
this one more collection. After this is  
worked off I ought to be better enabled  
to go alone, with the plants of Canada  
& Alaska & those of the Chiricahua  
well named. I ought to have quite  
a key to central & S. E. Arizona flora.

You kindly take in the whole situation &  
put yourself in my place; an orphan, an  
and bred, a wrecked Andersonville prisoner, and  
now an intense and restless exile, with  
let no hope, a modest desire to achieve the  
last honor that comes to a botanist—that  
of authorship. Bear in mind, dear Dr.,  
I shall try to describe but few species &  
those of the plainest sort. Also I shall not  
attempt any without careful thought and  
great pains in the description both that it  
shall be true to the facts, and in conformity

with the usual phrasology. I do not think  
any one has a right to describe in the rambling,  
jerky, ambiguous, hit-and-miss manner that  
Dr. Kellogg did and Mr. Greene does now, tho'  
the latter is so young, vigorous & ambitious that  
he will constantly improve.

You <sup>intimate</sup> speak in one place that perhaps I  
may be associated in some way with Mr. Greene  
in bringing out plants, &c. That is impossible  
now. While expecting you were to be gone  
a year longer in Europe (for 2 years was the  
first date fixed in our minds) I desired Mr.  
Greene to examine our plants and if he  
gathered detected new species, I asked to be ~~allowed~~  
joint authorship with him; and he seemed to  
agree to it, but after his gross insult at  
the Acad. I do not expect any favors from  
him. As you say this is not a pleasant  
condition of affairs for American botany, but  
really my dear Dr. I do not feel to blame for  
it. Nothing, of late, has so astonished me  
as this jealousy & ill will from Mr. Greene,  
and all the while both my wife & I were congratulating  
ourselves on his acquaintance & scholarly assistance.

2,

I wrote you that I had kept back three plants that seemed to me of easy detection as new species of small families, & that I would attempt to describe them,

I am doing it slowly, (as I must from pressure of other work,) and carefully.

Only two have been submitted to the Acad. yet. The first is a lovely white Gentian, known as the *Gentianaceae* are just from your hand. It was easy to see this one was not described in your "Synopsis!" & it is I could see even in the hurry & fatigue of exploration in the *Chiricahua*. It belongs to the section *Gentianella*. After casting about for several days for a characteristic <sup>name</sup>, all were preoccupied and just yesterday I sent to the publisher the name of *G. Plummera*. Before your two laden letters arrived this recognition of my wife's merits was the first valuable one given, and I hoped, if fitting, would meet with your approbation. Of course I will send



specimens & copy of description, - when out,

The second plant is a beautiful - lilac-colored Ranunculus, of the Ranunculus proper sect, which I described last Nov. as under the name of heterophyllum, but find that this thunders like one of the names of Botanical nomenclature, because heterophyllum is the name of a var. of A. aquatilis once regarded as a species, so now become a synonym; & hence the name is preoccupied. So I've put the descriptive name, like those which Mr Greene hides so much - a geographical one, R. Arizonae.

My next & perhaps last, is a <sup>robust</sup> large purple-flowered Gobelia, and after my late tilt with the "Same", I think it will cure me of further desire for authorship.

Especially would I be loath if not one of these "theives" would find the crop going they must catch at Harvard, - for of course you are to be supplied with as good specimens as we have of these etc.

In your last letter you indicate a new Brickellia as "B. Lemmonii unless you wish to name it yourself." Now Dr. Ellis staggers me not a little. First I know next to nothing

of the large and difficult genus of Brickellia, yet if I was allowed to suggest a name it would be that of our illustrious Chief as B. Grayi!!

But again you might from delicacy object to describing it under that name and as it is its only plant thus far collected from the terrible Apache country of the Chiricahua that bears my name, perhaps I better let it stand. I am <sup>of our late coll.</sup> sure thing comes only half as fully & resolutely for indication as the Plain Sumnera, that may bear my name I would forego all privileges of authorship, dubiously honorable as they now appear, always provided that I reserved either to bear or to give names.

Turning to authorship again if anything turns up in a plain, small genus that you would be kind enough to let me name I would feel it a great privilege - if it did not delay your publication of our lot of good things as you so generously propose. Most likely there is no time for this

scientific procedure.

You are most kind and generous to propose to do for you preparing general work & describe our good things in a special paper to be published soon. Be governed entirely by better motives than mine. & delay not one day for me. The very plan you propose as it hastens publication - is what us poor collectors most desire, since there are so many of us in the field.

I'm glad that you have a <sup>new</sup> genus to put into the special paper, and that it is a large & interesting plant. Please keep for us a few extra copies - as you proposed.

In the matter of other *Gonolobales*, the latter bundles contain them, as you have found out this. Our *Gonolobales* have gone to Dr. Thunberg & our *Barbiers* will go to Mr. Post as soon as we can get his address. The package is all ready. I wish you could arrange to have the whole coll. papered upon (including *Polyptelea*) in this special paper also. I've never collected what has been published as *Phoradendron* yet, - but no matter. Let me not for a moment keep you from that great work - the continuation of our "Synopsis".

Some time soon, when my dear little, Purdie wife can compose herself she will write you & express for herself the joy of our house held & night. But this is too full for more, now.

Again begging you to accept our profound gratitude for the Merry Christmas & Happy New Year you have given us. We wish the best of blessings to follow you through the years of all time.

Yours gratefully J. B. Emmon.

Oakland, Cal., Dec. 23, 1881,

My dear Dr. Gray,

Now, that the excitement consequent upon your late determinations is somewhat subsided, I will try to give you other notes desired before you publish.

But first let me explain, I have no right to be so totally ignorant of some plants as my correspondence has led you to think. Now that you kindly allow me to rise to the rank of an authority, surely I ought to impress you, if possible, with the name of a small degree of merit.

During my first excursion into Wisconsin last season I found that a new flora greeted me - quite undescribed in Bot. Cal.

So for our this year's expedition we took along, beside our dissecting apparatus and hand glasses, over 25 lbs of books. These included Bot. Mex. Bond., Athrocks Report, & your Synopsis. We did not take the P.R. Reports as the vols. are too heavy & we could not get segregated the botany from the other matters discussed in them, & be bound separately.

We do not possess Planta Wrightiana, Pl. Thurb. Pl. Franch, &c, &c, but borrowed them from the Acad. a month or so after our return - as soon as we had recovered sufficiently from our extreme prostration, to begin



to study again. From the first books men-  
tioned, especially Collected, we determined many  
of the plants as far as collected. There  
is no excuse for not knowing the plain  
description of certain families & species  
described in that book; especially the Com-  
positae, where the generic distinctions are  
given in foot notes. Of course in the  
heat, toil and expense of the trip I blundered  
enough. On our return, as stated, we  
obtained other authorities, and also we invited  
very cordially, Dr. Parry & Mr. Greene to come  
in and assist us. I in the determinations  
sent you along with notes of locality &c, I  
ought to have given the corrections of my  
determinations by them as "fide Parry" and  
"fide Greene." but did not think of it.

Had I done so you could have better  
coloured the extent of my ignorance or blunder,  
which then was visible from my letters.

I am led to this long explanation by such  
notes as this in your last.

"No. 189. Senecio laevigatus n. sp. Give your  
anxious mind! This has nothing to do with  
Senecio J. Rusbyi." &c, &c.

Now I am well aware of that. It is a totally  
different Senecio collected a year before my  
other new one from the deer park of the  
Santa Catalina <sup>coll. in May of this year.</sup> which has become "S. Rusbyi"  
because

It was not <sup>because</sup> of this being collected  
by Pringle this spring that I feared would

militate against my priority of discovery.

You will recollect, dear Sir, that a year ago (Oct  
I think) I sent you No. 189, and you hurriedly reported it  
as now, an n. sp. but you was on the eve of  
departure for Europe, and there the plant had  
lain in the herbarium, with others of that  
season's coll., until now.

In regard to No 180 (S. Rusbyi.) if it proves  
distinct from S. Bigelovii I am sorry to have lost it  
for we collected it in the deer park, in May,  
long before Rusby coll. it further eastward.

Of course such accidents will happen, &  
of course we prefer that our plants shall be  
compared with those in your immense her-  
barium and so, if necessary, lie there for years  
& wait those revisions of genera and orders  
that amount to so much in the true aid of  
scientific research.

When I wrote you regretting that 180 had  
been given over to the illiterate fellow (Rusby),  
I had just been stirred up by Greene who  
taunted me with being "a long way behind  
the times" &c. I'm exceedingly sorry my  
dear Sir, that I did not pocket the material  
he tendered me without replying to you.

Even the subsequent loss has been a subtraction  
of your most important studies & accommodation  
me and gratify my unreasonable desires.

But see what a great gain to me, your great  
loss has been! Why Greene looked off that  
Senecio as a most common thing, and

loudly  
the Stevia Plannera he declared was S. serrata  
against my positive objections. The Cacalia  
decomposita he declared loudly was a Nov. Gen.  
and in a Coll. from Mr. Buckminster which  
I saw a few days after at the Acad. I found  
he had named it with a flourish -  
Buckminsteria! He made many wild re-  
marks about my Coll. of Asclepiadaceae and  
as he had won laurels lately my friend Dr.  
Engelmann on that point, I was disposed  
to listen to him until he took up a Sci-  
mus in animal form & it, substantia and  
denounced "Dr. Gray" in some terms for  
"making such a terrible blunder". It was we,  
my little wife and I, bore such a profound  
respect for you, such a reverence I might say,  
that these words grated harshly on our ears &  
when he was gone we felt obliged to comment  
upon him as wanting proper modesty and being  
too conceited, altogether, even for a Californian!

I don't make these remarks now, from any  
unfriendliness to Mr. Greene, for we know him to  
be very kind & capable, but I wished you  
to know my provocations to trouble you.

I promise you solemnly, I will never do it  
again. Hereafter on plants will be forwarded  
to you to await your own method of procedure.

Mr. Greene we learn, is off in a few days for  
his old haunts to begin this early, his very successful  
exploration; with excellent health, strength, and full  
knowledge of the best localities! American botanist  
may expect most important results!!

Enc. this. Dear Sir, we must have seen  
two other packages of plants, including the  
"*Composita per long*".

I hasten to give you a few notes you re-  
sired or that are called out by your re-  
turns.

You ask which *Brickellia* does Green call "*B. Lemmonii*".  
Ans. I do not know, the one you  
name *B. grandiflora* var. *petiolata*.

Question I do not know *Compositum occidentale* var.  
*trichomanum* herbaceous?

Ans. My recollection is that the plants were  
always solitary, like an (1) or (2), but they may  
have had perennial roots.

I am astonished that you determine No 282 to be  
"*Perlandiera lyrata*". I've met with *B. lyr.* in  
several localities but never one like this, where  
it is a bottom-lands plant, loving water, and  
forms a large mass of root stems 2 feet  
across and often three! The leaves but slightly  
indented, never lyrate; but chief of all distinction  
the stalk was large, branched and fleshy 2 feet  
high wide branching & bearing a dozen or  
more heads. It abounds on the creek bank  
of Parker val, near the old Camp & was all  
of bloom with seed to all gone before I met  
with it. Only one poor, single-stemmed, delicate  
specimen could I obtain. I must be distinct.  
but will have to wait for Green's ~~omnifid~~ <sup>omnifid</sup> hand, now.

No. 342, "*Gynolomia* n. sp." I thought - was distinct when I gathered it. in a high ravine in shade Pap. just south of Fort Huachuca. The tri-lobed lvs. were very marked. I wish now I had dotted down my own suspicions when I saw the plants.

"*Bidens*

No 334 You call *Bigelovii* var." Is that all?

Why my dear Dr. is not the always sessile heads of the present species very different - even specifically so - from the long peduncled heads of 333?

Also <sup>compare</sup> look at the size. 334 is always low and with lvs. more nearly approximate. It appeared strikingly diff. diff. when discovered on the same trip but a long way above the 342 (the new *Gynolomia*) and near the summit of the peak about 10,000 ft.

The other *Bidens* (333.) is on the floor of the Apache Pap. about 5,000 ft. alt. Is this diff. in the plants due solely to this diff. of alt.?

No 357 (*Pectis longipes*) is called "annual" in Rothrock so I wished to correct it. It is always (94.)

No 352. *Plummera floribunda* N. G. (How shall we accent the generic word?) The plant is a puzzle. Basal leaves remain from the season before that is certain, but the stems are solitary and the root small and rapidly tapering. I did not see any flower-like crowns of leaves, but should think it ②.

We have but a half dozen spec. only three with full members, but you shall have a good one "from Huachuca". Will not Sir Joseph be delighted?

I thought No 322 (*Altemia serrata*) would prove to be Rothrock's 332 from Mt. Lyndham with broader, shorter leaves, lvs. somewhat d. base, with an expanded lobe to the corolla, larger scales in the pappus and red tips to the awns." which he thought a distinct species.

I am not greatly surprised to find Nos 320 & 321 are the same species tho' different in character.

I'm glad to have helped you to another spec. of Rothrock's *Altemia* (257 of his Coll.) my 223 of 1880, which you now will name *Al. Rothrockii*. A beautiful plant rare in the Chiricahua. Some plants very full flowered. We counted the heads on one near 200. *Calceolaria* peaks with 65 mature heads! Plant about 4 feet high.

The *Hieracium* (No 307.) is my only specimen. I thought it near to *lecontei*, but that genus is so little known in this coast and so fully represented abroad that of course I can learn but little of it.

In a mislaid package we find several more spec. that may throw light in dark places.

We have mature fruit of the Legumes Nos 144 & 145 of last spring's Coll. for Mr. Watson.

We hope you can make out the two *Hyemnopappi* of last spring's Coll. in the Catalina as they are immediately connected with our "Muddy Trip." We now



the plants first in bud and waited three weeks  
for them, then had to catch ~~some~~ off.

Also also with the new Laxifraga which is a  
new one. (Is it not the same as  
the one which is in the garden?)

The new plant which you have sent me  
is a new one.

The new plant which you have sent me  
is a new one.

Also also we have a flowering one  
of the same (I suppose) with tuberosa root. Is it  
really the same as tuberosa? If so, then

there is a tuberosa.

We are now anxious to know for what plant  
which Mr. Perry thinks belongs to Bomeliaceae.

W. J. Perry

I am sending off these notes with such  
things as we think you may want.

With the compliments of the  
firm and three to you three

I remain

Yours ever

W. J. Perry

Found only one spec. of that full-flowered Comp. (No 383) Is it a sport?

Oakland, Cal., Dec. 25, '81,

Dear Dr.

Ere this you  
have received our two  
other packages of plants,  
one on each side of Comp.,  
& will be reporting soon.  
I shall be obliged to you  
now, doubly, since a few  
orders are coming in.

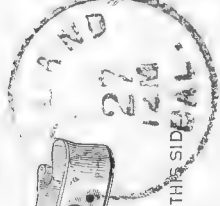
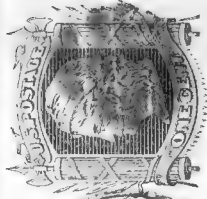
I have just been able to  
look at my "new Labellia".  
The first time since col-  
lecting, & I find it very  
readily by your "Synopsis"  
to be L. fenestralis. Cav.

This ends all expecta-  
tion of n. sp. for this  
season. I shall now  
take up interesting things  
and try before the public to  
make a knowledge of them  
popular.

Yours ever, J. D. Carson



NOTHING BUT THE ADDRESS CAN BE PLACED ON THIS SIDE.



Prof. Asa Gray.

Herbarium. Botanical Gardens.  
Harvard University  
Cambridge.  
Mass.

Oakland, Cal., New Year's Day, '82,

My dear Dr.,

Your favor of the  
22<sup>nd</sup> ult., arrived duly.

Many thanks for the it and  
for the determinations therein.

It seems that No 526, Gohin  
Rottrockii come near being a  
new find. Glad it helps to get  
Dr. R. described now.

Sorry we found only the  
one spec of No 383, Gynopolonia  
multiflora with double flowers. It  
was very striking with its full  
orange heads.

And the big leaved Adelpha is  
probably distinct. Good. I saw  
large stems of it in several lo-  
calities of the Rucker val. but  
all had flowered.

Although the leaves were so very



large I judged it to be A.  
Domestica as that comes nearest  
to it, while 427 seemed  
undescribed.

Yes. No 485 Lithospermum glabrum,  
seemed to be indigenous on the  
mountain slopes of Apache Pk.

Who will stand as the namer  
of Mrs Austin's Lycopodium, the  
one that publishes first?

I will see Dr. Kellogg about  
it, & learn where he obtained  
his specimen. It is a  
very curious plant.

While busy with our plants &  
clashes we are happy and hopeful  
of the future - & expect to be early  
in the field again - but where  
is uncertain.

My wife is now suffering from  
sore throat & lungs. She joins  
me with mother in warm regards  
& good wishes for self & Mrs Gray.  
Yours &c. J. C. Common.

I never could account for his conduct. He once told me that if you presented him with a copy of Bot. Cal. he would "hitch" it out of the window?

He will soon see what John Greene will do. He must certainly lack the means for anything more than to explore, but he aspires to the leadership in the botany of this Coast - declaring that no closet botanist could describe

Unskillfully for my reputation, the help of Holiday work prevented the publication of my banner and last week give me the credit of I sent over to have the name of microcalyx restored, a name objected to by Dr. Parry because he thought it a mangrel.

Dr. Parry remains friendly and helpful as ever. And my dear Dr. I do not deserve the censure of any one. No one can reasonably enay me any distinction I enjoy, and I do not enay others, nor pick flaws, but rather love to ascribe merits & respect them.

And this has been the reason for my occasionally asking you to name plants or

Oakland, Cal, Jan. 7, '82.

My dear Dr Gray,

Several pages of laborious determinations and two long kind fatherly letters prove that the heart of "Good Dr Gray" is unchanged toward me even after my late unwitting misconduct.

The distinguished favors you now grant in addition to those continually showered upon me affect me deeply & well enable me to receive with gratitude the criticisms you now give.

You do not pain me, but quite the contrary, I'm glad you are kind enough to be thus plain. I'm very sorry to have been over-borne by the severe measure & limits of my

friends of the Acad.

Unwillingly I've not hesitated  
far, and I write from my heart  
that even the first step may  
be mistaken. You propose for  
me a far better proceeding i.e.  
to send on plants with sug-  
gested names if I wish, which  
you will examine and if ad-  
missible, you will respect, and  
in due time when you come  
to the plants in proper order will  
publish. That note may ex-  
actly.

I have been stung on all  
sides by such taunts as this  
"Could you describe a plant  
so that it can be recognized  
as well as Willdow or Greene  
or Ponce?" It was in vain  
that I protested that I had not  
the necessary literature, nor herba-  
ria &c. and that I declared

that R. L. & Co. were doing  
harm by their faulty de-  
scriptions. That as the relations  
of the plants <sup>they describe</sup> to ~~the~~ <sup>these</sup> ~~follows~~ <sup>were</sup>  
all omitted &c. &c. I in reply  
would be "What of that, Lord  
you see that the plant is  
recognized, and <sup>these persons</sup> they are ranked  
for all time as authorities?"

You see it is the aspiration  
of this coast that some time  
we must do this work our-  
selves. In vain I've read that  
items received from you from  
time to time, showing that  
there were not a dozen in-  
stitutions in all the world where  
perfect botanical work could  
be done. Poor Bolander was

in a fair way to achieve suc-  
cess, he had the nucleus of a  
good library & was in intimate  
relations with most of the masters,  
but Alas! he flew off on a ven-  
erable and his library and val-  
uable specimens are scattered.

do much for the sister.

There are for other international  
several important <sup>local</sup> ~~international~~ discovered ~~to~~  
made, and some ~~more~~ discovered ~~to~~  
collected, the "Leptoroxia" declared a  
new terrace and a few other  
new things detected.

Thanks for the new varnishes  
super Boleophogonum. I found it  
first on the floor of Tucker val  
at about 6,000 ft. alt; then up on  
the peak east of the val. 11,000 ft.  
no plants in bloom.

Thanks also for the new Palace  
London Card (No 5374). Specimens will be  
 forwarded to her this morning. She  
 is a lovely lady & well rounded  
 more to botanical work, while most  
 fortunately situated.

Am glad to get that plant named  
that grows on the river flats at  
Yund - *Sama stenosarum*.

As about the Scaled Pudding I think  
it distinct more from habit than from  
characters. It always caught my  
eye as more spreading, robust, and  
strong. That is Mr Redding has  
just informed me that he does not  
care for house, please change the  
name to Intense if advisable. a

2.

We have just been having  
a long evening talk, — my wife,  
our mother & I, about the sub-  
ject matter of your last letter,  
and we heartily agree with  
you in all your views.

We rejoice that so soon  
my wife has achieved so many  
rankings honors, so well de-  
served. Let me insist, as the  
first true lady explorer of  
Arizona. She has  
found a splendid genus, large and  
showy, though not of an order  
that will come into cultivation.  
In this respect no better  
case, ~~is~~ sooner, than any one  
of all the Lemnons.

The *Stevia* is a perfect gem.  
So attractive at first sight that  
I examined it & finding <sup>out</sup> its real  
name, & believing it to be rare  
I collected a large stock of it.  
Now she is satisfied as well as  
I to retire from the field of ac-  
tive discovery, for many reasons,  
tho' still holding to the study of

plants. We have learned by these two years' sojourn in Oakland, which though a city of 50,000 inhabitants and only 20 minutes ride from San Francisco, that there are too few people in this region who sufficiently appreciate the specimens of plant we collect at great cost, to pay us for them. All our schemes for making up & selling books either of ferns or characteristic phanerogams are failures.

We have found that the thing that counts is to be favorably known. Gladly we have solicited Clapes & now a coterie of 20 ladies come here for instruction once a week, upon ferns. My wife leading <sup>them</sup> very enthusiastically, by repeating characters and by copious illustrations on the black board. I am solicited to "talk" once a week in a private school of 150 pupils once a week, & commence the business next week.

We propose — and this is precisely what you advise in your last sentence — to settle down into the work of teaching what little we know, using our large collection for illustration.

This will bring us into the notice of a wider & constantly changing class of community who may choose in some ways to help us along.

The almost fatal frustration we both suffered in our last exploration of the Clarksburg ~~specimens~~ <sup>specimens</sup> warns us to be more, to be content with easier work, to rely upon other means than collecting for a living.

Nevertheless do not consider us by any means out of the field of exploration. At favorable times we shall dive into certain out-of-the-way places that we know of, & hope to still bring valuable material to light.)

3  
The book is not in condition  
to continue the usual careful  
prompt determinations!

Thanks Dr. for your P. C. and  
in regarding the "Wedding Gift" and  
the "Pacific Ferns". Despite their  
proof reading a host of errors re-  
mained uncorrected in the Ed. &  
I am noting <sup>down</sup> changes for  
the next edition next winter.

I mean to give longer leading lines  
& distinguish every piece by  
them, so that determinations can  
be made of a fern in hand by  
that little primer alone! and  
why not? There are only about 75  
in all on this coast.

Ever this Dr. you have declined  
to give regular work on the Synop-  
sis & I promise not to disturb you  
again. Hoping no degree of prostration  
or nervousness will tempt me  
again!

Last now my good little wife is  
suffering from sore throat - too much  
talking - but she with our mother  
heartily join me in warmest  
well wishes & gratitude.

Yours ever

J. D. S. Munro

It seems I omitted to  
send you the specimen of  
Petalostemon  
Stellen marked 5-5-7. It  
is the same as 5-8-7 1/2 but  
with a little wider leaves. It  
was met with on the Plains of  
Jefferson val. bet. Bowie and  
Acker.

Also it seems I wrote the  
note, "a Boraginous plant"  
after Conoclinia, when I meant  
to say this of the <sup>next</sup> No. 403 which  
proves to be a Holiotropium.

Strange that I did not take  
time for a thorough search in  
your Synopsis for the tuber-bearing  
Ipomoea muricata.

One of your two determinations  
of Bidens I suspect is a slip of  
the pen. One with long-peduncled  
heads you name B. Douglasii (No. 333)  
the other  
with sessile heads " " var. (No. 334)

The first group abundantly  
along the shore of Black Bay  
in shades, and was always  
some 'peduncled', the other is  
on the north slope of high peaks  
near, and is always with fruit  
sessile or at least overtopped by  
the larger upper leaves.

Also in my specimens there is  
a marked difference in the achenes  
in this respect; - those in the long-  
peduncled plants are distinctly  
armed with upwardly directed,  
whitish spines, the strongest near  
the side below the base of the  
awn. In the sessile heads  
the achenes are smooth or at  
most scabrous with roundish, dis-  
colored, flat excrescences.

May not these distinctions, if  
holding true, amount to specific  
characters?

Of course you may have con-  
necting forms.

I was quite astonished to  
find so many columns con-  
taining forms of *Karwinskias*.

We are sorry not to have found  
more of the double-flowered  
*Symphoricarpos floribunda*.

Now we await with anxiety  
the coming determination by 'Prof.  
Watson'. The curious large  
flower, No 477 interested Dr.  
Perry very much, as he had never  
seen it.

The Gramineae sent to Dr. Thur-  
ber are still unheard of.

We wrote to the Dr. for the ad-  
dress of Van Brunt, as we have  
not up all our Barices for him  
but get no response.

Will you be kind enough to  
give it when you are writing  
sometime.

Is there any danger that Dr.



you a statement of the attitude of  
Mr. Greene. His unkindness is  
totally undeserved and we regard the  
state of things as much as any one.  
Perhaps it may not long continue.

Dr. Engelmann's letter discloses  
at length the European question &  
I must answer to-day.

Thanks for the criticisms on  
my "Pacific Ferns". Your work is  
full of errors developed by care  
ful scrutiny in our classes, and there  
is a hope for a better edition, next  
winter.

Even in all my experience I am  
often obliged to give up work a day  
or two, when I find that my eyes  
will not stand for more work, so  
I keep busy & suffer.

We all wish that you were to  
yourself about your own little garden.

Yours truly

J. G. Engelman

Heidelberg, Jan. 18, 1882.

My dear Mr. [unclear]

Your long, kind

sliding letter of [unclear]

— followed me [unclear]

part of the [unclear]  
plants and your last note  
assigning Mr. Watson's "Coreocaulis"  
"N. sp." to Leptosyne Arizonae.  
are all at hand. Many thanks.

Also a letter from Dr. Engel-  
mann deciding that the Gen-  
tion so much talked of is dis-  
tinct. He says "it belongs to the  
section Austrophila, though it bears  
a strong resemblance to its allies  
and especially to G. Wislizeni if it  
is well distinguished."

So one only of my determinations  
stands fire. This is a good lesson  
to me, and confirms all your advice  
and friendly regard.

As I stated in a former note  
I shall not soon again tread  
upon unknown ground.



Your long letter is very good  
& deserving <sup>and</sup> it thoroughly cures  
me of several sins.

One word in parting with  
the Common Busin<sup>ess</sup>. I was  
not aware that I was more de-  
sires of them than other botan-  
ists for their honors. Southern  
Cal. & N. Mex. are well stocked  
with plants bearing her own names  
and some folks judge of rela-  
tive standing & success of collectors  
by these names alone.

I'm glad you help me about  
checking my wife's desire to be rec-  
ognized by her maiden name, she  
saw the whole force of your argument  
now & thoroughly acquiesced - and  
this name is above either of us  
have a plant that is strong enough  
ever to come into cultivation.

Dr. Parry is not right, this time,  
in reporting that we have quarreled  
with Parish brothers.

On the contrary one of them  
was soundly taken to task for be-  
rating & abusing me, by a mutual  
friend. I have always helped

the boys to determinations &c, with  
never a plant, or a hint of lo-  
calities from them <sup>in return</sup>. They  
have tried to injure me in many  
ways, but it was in the long  
past and Mr. D. B. Parish visited  
me recently and we had a fair  
interview. He is certainly a

cool, careful ambitious man now  
and is doing good work. Dr. Parry  
says the boys have discovered this  
season 20 species. Whether you  
get duplicates of them or not  
I do not know. Mr. Greene  
had some, he stated.

Letters passing between us arrange  
for an exchange of new species, &c.  
so I am very sorry that our dear  
Dr. Parry should report us <sup>as "quarreling."</sup> so.

This will of course prejudice  
you against me & it will show  
in the forthcoming "Contributions."

The fact is my wife & I are the  
quickest of persons, differing with others  
as little as possible. I have given

Oakland, Cal. Jan 22, '82

Several plants remain undetermined yet. I hope you have sufficient material in the case of the Stenorhynchus. It is a robust & striking plant.

I enclose a Triglochin, found on the low lands just back of the sea shore at Monterey last July.

It may be palustre as you say in Bot. Cal. "not yet reported from Cal." tho' I do not find the fruit "separating from below upward," tho' it may in older spec. No plants of all the collection was larger than the one ~~now~~ enclosed.

Our mother is busy and happy as usual. She often speaks of the pleasant call you gave us.

"Amabilis" is often prostrated from over-work but rebounds again. I think a little bigger every time, so we take courage for the future.

A fine class of about 20 ladies come here to study ferns every Thursday, led by her, and a smaller class come in Tues. eve for microscopical studies, which I direct. Also I am lecturing at stated times to schools, and so our busy life fleets along.

All join in warmest regards. J. D. Berman

My dear professor,

Dr. Gray has represented your institution so ably lately, that you have been neglected. But many times during a day of study is your name mentioned.

Dr. B. has just now announced that our Arizona plants nos 144 & 145 are spec. of a new species the generic name of which we cannot make out on his card. It looks like

"Covsonia microphylla." n. sp.

That is an interesting shrub as I have written you. Two forms of it, purple and white flowered, also the purple is larger and taller.

Both branch widely from the base, in fact most of the stems arise from the roots like a hazel, or alder. The bushes form large clumps of several feet in dimensions, the white flowered, the smallest.

One of our fern club - Mrs. Hardy - is a cousin of yours & very bright.

It seems our Catalina coll. is not much behind the later one from the Chiricahua for rarities. What we did not find no doubt Mr Bringle did offer us for he is a very strong diligent and careful collector.

There is little hope for rarities now or after the Santa Ritas or Catalinas except in the higher parts where neither of us could be at the proper time.

We have selected the Dragoon mountains east of Tombstone for our next point of attack, provided the ground is not preempted.

The territory is so large and the ranges so numerous that one need not look long for an exclusive region for botanizing.

We hear not a word from our Iraminea sent to Dr. Thurber. Our Barices are not yet sent for want of Mr Booths address. Strangely enough it is not in either of our directories - It is given simply "Boston", which we think is too indefinite. However I have addressed a card to Boston & hope for success.

A package of plants near to Barices I sent you upon which I hope you will report soon; but of course take all the time you want.

The claps in the schools here keep us so busy that we can do but little at selecting and distributing plants.

We mean to lay aside an excellent set of things for Dr. Cofman in time but it may not be until late in the spring.



re-elect him if they knew he was only a botanist &c. He seemed very willing to incur unusual expenses for the department while in office and several fat contracts for printing &c were charged upon him. At last he was closely identified with the sale of Examination questions and retired from the office in disgrace. In the mean time he had rejected all botanical friends and broken up his foreign exchanges.

He had a large botanical garden on his lands but quarreled with his partner, his son-in-law - shooting the partner - and that broke him up in business. Then he commenced that reckless, foolish scattering of his herbarium and books.

I shall never cease regretting that I was not near him at this moment for he always remained friendly to me.

His cryptogams & several most valuable books he gave to Mr. Rattan. Certain hortensia volumes he sent back to Europe just before he disappeared.

Mr. Rattan says he went off to Central America and that before he

started he indulged in the most bitter denunciations of our country and its people. He raved frightfully.

During my last visit he acknowledged by his coarse denunciations of Dr. Gray and pointed out discrepancies between a plant in hand and your descriptions. In vain I tried to mitigate his anger, by saying that many of the characters of plants were obliterated or at least disguised in the process of drying & pressing.

He happened into the Acad. once just as I was about to commence a dissertation upon the Conifers of California before the ladies of the International Society. He assembled there in large numbers. I tried to get him to remain and take part in the discussion, "You can tell us more about our trees than any one else" I urged. He only scornfully smiled as he rummaged through the collections while I read my paper.

For a long time after his disappearance I heard nothing of him. At last Mr. Rattan told me that he went with his family to Nicaragua and was attending bar there.

Since the information is modified to include keeping a lodging house.

He was fond of his beer and his wine during all my acquaintance with him, but I do not think he drank heavily. Unlike Dr. Behr of our Acad. he always joked

[illegible][illegible]







4. 2. 1. 1.

10





St. Louis, Mo., Oct. 27, '82.

My dear Dr. Cooper,

On this mail I  
forward <sup>small</sup> two ~~more~~ <sup>more</sup> boxes of plants for Prof. Dr. Cooper to St. Louis.

Also a package of some  
flowers that I have just received and  
which I wish determined as soon  
as convenient.

The plants sent out to all  
our correspondents by this mail  
are our collection of the  
great order of Caryophyllales.

There will be enough of them  
to make a package each.

The Transverse Band Group  
will make another large package  
and it will include Cyrtandra,  
other, added to these may be a  
few more of the tree species if  
they are desired.

Will I send these last to you  
for Dr. C. & Dr. Cooper?

I put it in mail?

Truly Yours, A. S. Pennell

Oakland, Cal, Mar. 20, '82,

Dear friend,

Thanks for late favors, especially for the order of plants for de Cordolle. The collection will be as good as we can make it, and no poor trash put into it. We are just hard at it selecting & labeling several packages that must be got off soon.

The Woodsies sent were of only the two species "Mexicana & M. Plummera, the last one being "rhombic", with attenuate pinnas and beset with glandular hairs. Glad to hear that you will publish the Gentian with the other new things. Remember us with copies, please, as ever. Yours, J. B. Plummer

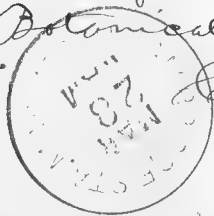


NOTHING BUT THE ADDRESS CAN BE PLACED ON THIS SIDE.



Prof. Asa Gray,  
Botanical Gardens,  
Cambridge.

Ms. A. 9. 1.





... the description  
of And. B. clausi to me,  
and the fact that you have  
found the And. B. clausi,  
"And. B. clausi" - a name  
which I have not seen,  
and which I have  
not seen in the literature?  
It is very interesting.

I am delighted to reflect  
that the only book that partially  
treats the And. B. clausi is the same in  
the literature was the same in  
the literature. It is a wonderful  
book, and very good, that is  
the only one in the literature  
of the And. B. clausi.

I have not seen it as a method  
of the And. B. clausi to  
the literature. I must publish  
some, and be sure to  
publish it in "Pacific Notes".

The next publication is to be  
the And. B. clausi next  
month. I have not yet  
published it. I have not yet  
published it.

I am very interested in  
the And. B. clausi and will  
submit it to the  
And. B. clausi. I am  
very interested in  
the And. B. clausi. I am  
very interested in  
the And. B. clausi.



1  
at home, May 2<sup>nd</sup> 1862.

Dear Mr. Gray,

Therapy is a fine  
little manuscript package, 1<sup>st</sup> to  
congratulate, 2<sup>nd</sup> to note.

These I have turned up. The  
time & time is hardly 10 to 15  
of Composita in our collection.  
I have reported the name as 200 (the  
number of source) & the report will  
follow me. It is about 10 to 15  
for the same again, for a number of  
or 25 weeks of collection.

I have been working for weeks  
over the Composita & it has been done  
made but few mistakes, in putting up  
in packages. I send you what  
we have on hand (the Composita) for  
Dr. Cooper & Prof. De Candolle.

Another large lot go to the British  
Museum, soon.

I have trouble to get packages  
off to Europe. Our Post officials re-  
fuse to take packages of sufficient di-  
mensions to contain some or more  
plants.

Do you send abroad such packages  
as I send you?

I am not at all sorry to hear  
 that you are thinking of  
 what it wished at this time.

The plants sent to Copson this  
 may include a few sent to  
 you a few.

I made a great mistake  
 in my collection of  
 in the first of dropping my old  
 names. The big stone comes  
 in no confusion in following, & I  
 think trouble has commenced!

For the time being again we  
 shall resume the highest mass here  
 again and go on from there.

I am sure that I have not before sent  
 any Compositae to Dr. Copson, so there  
 will be no duplication there, not certainly  
 now hereafter.

I have entered the names of every  
 species & variety sent to each of our  
 patrons this season in a book, so  
 there will be straight work here-  
 after.

The price for these plants ought  
 to be about \$10 per century, had it not?  
 Considering there are so many  
 new ones among them.

But we fix the price & shall  
 be satisfied with it.

Part 2 of Plants of Arizona

Zona, (probably from the old  
 collected in 1880 & '81, by  
 S. J. ... near ...

616 *Helianthus* ... near ...

617 *Helianthus* ... Rucker vol. ...

618 *Pectis heterophylla*? Apache pop. ...

620 *Bidens heterophylla*? " " "

621 *Brickellia* - mistaken for *brachy*  
*phylla*. Rucker vol. ...

622 *Bahia* - Near Tucson. ...

623 - ? Apache pop. ...

624 *...* San Bernardino, ...

625 " Near Merced, Cal. ...

626 *Chenactis* San Bernardino " "

627 " " " "

628 " " " "

629 *Aster* near Fort Huachuca, Ariz. ...

630 " Carson val. ...

631 " Peaks of Sierra ...

632 *Helianthus* " "

633 *Guillardia* north side Santa Catalina, ...

634 *...* San Bernardino. ...

635 *Grindelia* near Merced. " "

4 - you would & have a  
with to his high - stating it  
some ~~it~~ should be a  
positive (200 pieces) to you for  
him & leaving the question of their  
value to you & Co. (old 200 b.)

The Co. for Long Shot is called  
number 1 but it is blue, (Plate 475).

The British Museum - got it  
the same year.

From a letter I have just re-  
ceived from Watson I see that you  
send boxes of plants abroad.

Do this ~~insert~~ my question  
on a previous page.

I have a mind to ask you people at Harvard can facilitate my dealings with the British Museum, via the Royal Gardens.

I have asked the party to expect other flats in addition, next winter and could send all at once.

Perhaps I shall soon get special  
directions from the road board.



Dear Sir,

I mail to your address our young magazine, the "Californian," in which is "A Botanical Wedding Trip" that may interest you, Mrs. Gray and Mr. Watson.

It may assist you in fixing the discoveries in the terrible Santa Catalina.

It is to be followed if I can ever find the time, by a description of our last excursion that came so near ending our winter career in the Achiricachans. If ever written it will be called "Botanizing in the Land of the Apache."

I am in receipt of warm congratulatory letters, Please at your leisure, criticize the article and report.

Truly Yours,

J. B. Pennon.

Fort Huachuca, Ariz.

June 2. '82

*Mammalia*

My dear Dr. Gray.

Your favor of April 27, the over-took us at Tucson while on the way down here & because we were long in getting permanently settled, I have delayed writing.

Now we are established for the season (until last of Oct) in this far southern post and can renew correspondence &c, with friends.

From the Chiricahua Mts last season, we looked over to the Dragoon Mts, westward, <sup>(30 miles)</sup> and from their rugged appearance we selected that range for exploration this season.

26 But just before departure the  
Apaches broke out in arms again  
and swarmed into that very  
range of mountains. So we  
changed plans, took the Benson  
& Guaymas R.R. for the south  
and after a deal of delay and  
trouble, are at last quartered  
here in the Huachuca mountains  
composing the second range west  
of the Chiricahua mountains - and  
still so near the wild Apaches  
as to be frequently alarmed.

We are camped under an  
oak tree in tents and are near  
to and under the protection of  
the commander of the large garrison  
here. This is a very pleasant  
and they say, healthful location  
for a fort, being at the mouth  
of a long ravine running out  
of the north end of the range of

mountains, - hence it is comparatively cool. A small stream of pure spring water supplies sufficient beverage & a larger one serves for washing &c. The garrison is composed of 4 to 10 companies upon occasion. But few buildings are yet erected. The troops mostly quartered in tents. All have just been out scouting certain passes through which the hostile Indians must return from Mexico to which they were lately driven. The last party came in last evening. Neither succeeded in intercepting the foe.

A half dozen mutilated bodies of whites were recently brought into Tombstone from the Dragoon Mts. indicating that at least a small party of Apaches are infesting that region yet.

We are not allowed to roam



far from the post. — nor ~~it~~<sup>are</sup> we able to in this hot region.

Only early & late in the day can a white man endure the fatigue of travel. Troops, mules, stages, even Indians travel by night.

These mountains are rather rugged & lofty with granite formation, principally, with several spurs of lime.

A half-dozen ravines furrow the eastern slopes and are said to have abundant floors, and these must be the object of our search this season — after the rains, soon to begin.

This is one of the characteristic ranges of this dismal desert. It is isolated on all sides by an arid plain. The nearest other elevation being 20 miles away.

The longest diameter is 70 miles, north & south, the average is 20 miles. The south end

reaches over some miles into Mexico. To the east 30 miles is the new, bustling & ill-fated mining town of Tombstone. To the north are the Whetstone Mts. To the north west 40 miles away tower up the famous Santa Rita Mts. beyond which is Tucson.

Between the Santa Rita range and our Huachuca range lies that rich Sonoran valley in which Dr. Rothrock found so many good things.

We mean to scour the region & add to our reserved plants as well as to get-for sets.

We were too late for this region scarcely anything but dry stalks, being in sight, but among the crisp ferns nestled in the crevices of rocks where covered by leaves, we find your beautiful fern Noth. lragii. We find it in every

mountain thus far explored in Arizona, and the wonder is that it was not described before last year. The principal tree here is the black oak, Q. Emoryi, forming low headed trees like Q. agrifolia in the Cal. valleys. With it also are a few trees of Q. reticulata & a few hundred feet higher & about a mile farther up the creek comes in the beautiful Q. hypoleuca. At about 7000 ft first appears the two pines P. Chihuahuana & P. ponderosa.

Along the creek grows Platanus Wrightii (but the balls of fruit are frequently in 2's <sup>or in also</sup> and single.)

Bending over the water is Aquilegia chrysantha & Bouvardia hirtella with Erigeron rosea, Pentstemon barbatus, Scutellaria galericulata &c.

Among the plants that are new to me is a ligulate Compos. with grass-like leaves and very distinct, black, triangular scales to the involucre. (Spec. enclosed.)

Another puzzle grows out on the plain as well as on the hot, slopes & is a <sup>dichinosa.</sup> ~~monocotyledonous~~, perennial rooted herb with palmatisect leaves, regular 5-merous fls. & stamens in the staminate ~~corolla~~ <sup>flower</sup> in 2 sets = 5 & 2. Stamens united into a column. I've not collected the pistillate fl? yet nor the fruit, but will obtain full suite of spec. (I enclose spec. of immature plant.)

Also a spec. of Dalea is enclosed which grows sparsely on the Babocomari creek 7 miles north of the fort & at the new R.R. station.

Now my dear friend and patron, having explained away our seeming neglect of you, and also given a little account of late movements & labors I will turn to the important items

you as so kind as to communicate.

1<sup>st</sup> In regard to the Calce-  
gonium. Of course I regret  
exceedingly that it does not  
hold true. Next winter I  
will send word to all parties  
to whom that (with others  
that may need correction) was  
sent & inform them of the change.

2. The desiderata you note as  
desired by Sir Joseph can most  
of them be furnished - when we  
get back to our Auckland her-  
barium. Also I hope we  
can furnish such other plants  
as he desires at New-in time.

Recalling the consideration that  
New contains almost everything  
deters us from making up sets  
for Sir Joseph. but please tell  
us from time to time, what specs,  
would be acceptable there,

3<sup>24</sup> With reference to the transfer of Dr. Copson's plants to Bossier - or the making up anew of 2 sets for the latter - we are glad to learn that our plants are so much desired.

Make any change you please Dr., and we will try to make out the sets desired. In some instances where our specimens were plenty I laid aside "for keeps," several specimens of the species, especially of aberrant forms. Now out of those - we contemplate some day, when a suitable place is prepared for them, to select a set for our Cal.

Acad. of Sciences. - also when a proper modern interest is shown in botany by the botanists of our Cal. University, a set goes to that.

In many instances there is material enough for still the two sets desired by Dobbier. — and if your request is repeated next winter such sets may be made out for him. Of course they will not be full sets, perhaps not one fourth as <sup>large</sup> ~~full~~ as the sets sent on for Casson & DeCandolle.

I'm glad you suggest sending by freight. That will enable us as you say, to send on tree spec. All of these of much weight were omitted from sets sent, as I intended to ask you about sending heavy things by freight. The British Museum Curator (Wm Barthelemy) asked for plants last winter and we sent a set (corresponding to Dr. Candolle's) to him by express. Not yet heard from, but the expense cannot be great, about \$5. for 14 lbs.

In Oakland a few weeks before starting here, I <sup>had</sup> declined in health, nearly lost my voice so that I had to desist from talking before the seminaries, also fell off in weight 9 lbs. It seemed imperative that I must change climate or occupation, & as no change seemed so desirable as one that embraced a little botanizing, we concluded to come down here, for the summer instead of the autumn as planned last year.

Clouds form heavily <sup>of late</sup> every day, and to-day it sprinkled slightly so the rains may soon fall.

In the mean time we have ~~two~~ roomy officers' tents with a "fly" between, all well equipped with the necessaries of camp life and as we are resolved to be careful



and not over-work & become pro-  
trated as in the Chiricahua last  
year. it may be that I shall  
both recover health & collect a fair  
harvest too. My little wife enjoys  
the move from first to last and  
proves a most admirable wife  
for a botanist. All of the taste  
and nicety which <sup>she</sup> inherits from  
a cultured family come in  
apt requisition. <sup>which</sup> but the con-  
ventionalties of the drawing-rooms  
of Oakland are most willingly  
exchanged for the simple yet  
rigid and careful duties of tent  
life. As in the cave of the  
Santa Catalina & the tunnel of  
the Chiricahua. so here in the  
tent of the far-away Sonachuca  
she is mistress of the situation,  
and as happy and busy as a bee.

I have gained back 10 lbs. and  
feel <sup>nearly</sup> ~~quite~~ as strong as usual, while  
Anabilis is in excellent health, again.

Dr Parry writes glibly of his fine trip down the coast with Cleveland, <sup>Bringle</sup> and the singular fellow ~~one~~. "A most interesting region", he writes, "the best I've seen for years." Now he changes places with us - he seeking a northern field.

He talked of "Contributions", containing especially, our last discoveries does not reach us yet. Perhaps the pamphlet is following our crooked route. - or may be is lost.

Please send a single copy to our present address, if published.

We closed the Oakland barbarium for the summer. Our mother coming along with us as far as San Bernardino where she visits with an old Michigan neighbor until our return.

Our rooms in O. are on the north side of a large house and of course they are shaded most of the time.

Physicians tell us that is the cause of declining health, so we will have to change to sunny rooms on our return, & this will involve much trouble. Our collection is really becoming something worth having. When all clarified as it now is up to the end of Compositae it will be of value to some parties or Institution.

Now my dear Dr. please pardon verbosity & errors, I am as so disturbed; & please write me soon and often. Letters will be very acceptable in our self-exile, but more especially, your characteristic favors.

"Amabilis" joins me in warm regards & best wishes for yourself & also Mrs Gray. Also Prof. Watson & Goodale.

Ever truly yours,

J. L. Crammon.

Fort Guadalupe, Ariz.

June 13, '82.

My dear Dr. Gray,

Found two last favors - one enclosing determinations are at hand, having followed our devious trail down here.

Hereafter mail will come direct as we are settled for the entire season - until Nov - in this favorable post.

Your kindness in devoting "all the best working hours of a precious day" to our last parcel is deeply regretted, but also duly appreciated.

It touches my heart whenever you work so hard and take precious time "which I would not do for any one else."

I recognize the sentiment of favor which you kindly extend to one most unfortunate, as emanating from one most fortunate - yet most considerate & helpful.

It appears that some of the last seedings were interesting.

The stragalus lumnistatus was abundant & striking on the north slope of Catalina.

I may be mistaken as to locality of Senecio Parryi in S. Cal. Will see on our return home.

Of the three plants I sent you scraps of last week, one has developed its fruit since & I have made it out to be Lathraea megarrhiza. Although it looked very like Piscinia I was deceived by the presence of a true calyx & by the juice being not milky.

The Comp. & the Dalea sent you remain puzzlers still.

So Dr. Copson has given you Carta blanche for buying everything you chose. Good! Now we know just where the plants are wanted and will work with more heart & hope.

I think it best - as you at least conclude - to send the package designed for him to destination, because we have copied each label in reference books & propose to continue sending to him as long as he desires our plant.

2.

About the pay for these plants my dear Dr. there is no hurry about it. We made arrangement with friends for remittance when needed, but think we shall require but little. Our habits are very simple. We are wearing our old clothes over again and several slightly expensive practices <sup>requisite</sup> in the beautiful city of Oakland, are totally suspended here under the sheltering oaks.

Wait until we return home then you may bother yourself with the financial part of our correspondence.

Do you take an outing this summer? If so, where?

How many new species <sup>of Phrynosoma</sup> did Pringle find in Ariz? He is a very careful collector & well deserves the reputation he has achieved.

We missed seeing him as we crossed tracks on the way.

So on our return next Nov.,  
we will at once set to work  
regulating our rather disordered  
herbarium (beyond Compositae) and  
then fill out as good set as we  
can for all the kind patrons you  
may find for us.

Now, dear Dr., Let this matter  
trouble you as little as possible.

I will make an approximation of  
the value of the plants, (after exam-  
ining them as to character & correct-  
ness of labeling.) and do not take  
time to count or study them.

I will see about consigning them  
to the British Consul - as you suggest - for  
the British Museum. but if mine can  
be included in yours & there is much the  
better, perhaps - except the bother & cost.

Weather scorching hot on the plain. cool  
& pleasant in here. My nasal strength grad-  
ually returning. My wife sprightly & happy  
She is so fascinated with botany that any  
difficulties in the way are cheerfully overcome.  
Bringing along her water colors, she hopes to be  
able to catch the colors & forms of some of  
the rare plants here.

With you in continued regards.

Truly yours

L. L. Penniman

Mr. Cleveland has sent us already a fine stock of C. phryganeiformis also some more mauriciensis of Gymn. tricolor argyllensis vers. viridis ovata. all one next if that wooly tailan- very like to be new and if no specimens are for de term in our range & over a stone on return and for them. It is a running in stock making C. & indidmure the roots are to be obtained will sufficiently

are established for the season at the above post, and our long delayed mail begins to arrive.

No part of it is more welcome than the determining letters from good Dr. Gray and the "Botanical Gazette" for May containing your (too modestly stated) "Bit of Fern History."

It is just such articles <sup>that</sup> teach us the importance & value of certain specimens. How distinctly the impatience to discovery is shown to follow the publication of Eaton's great work, and your Descriptive Catalogue.

A number of important facts come out in this "Bit of History" when & where were made the last discoveries & by whom. The limited localities of some &c.

I am surprised that you omit



all reference to Chel. viscida, one of  
your own discoveries among my specimens.

You still regard Polk. virginica as  
rare. We have met with it in all  
the mountain ranges of Ariz. thus far  
explored, tho. it must be admitted in  
meager lots.

I am puzzled over Pellaea flexuosa.  
We found it in plenty in the Chir-  
icahua. last Sep. but altho. it had  
the structural characters of the stem  
so carefully pointed out by Prof  
Eden, yet no specimen was ever flex-  
nosa. You called it P. cordata but  
Prof E. held to P. flex. Now how  
does the matter stand?

A great many of your last list (on  
Page 63) of rare ferns we have not,  
or also, of course, all the recent finds  
in Florida. I wish you would  
reserve a good set of all the new  
& rare ones for me to be sent for when  
we return next Nov. to Oakland.

It is very important that we  
have specimens of all our ferns because  
our herbarium is so much inspected.

Teachers and students not only of Oak-  
land but San Francisco & all the towns  
near, are in the practice of studying our ferns.

In this far southern range of Mts. we are in hopes of meeting with certain Mex. species, as Adiantum tricholepis, Aspid. grandifolium, Acrostichum Mexicana, & A. adiantifolia, &c.

Already we find Noth. Grayi & I am led to believe that it is one of the most widely distributed of our southern ferns. - Gym. hispida always excepted, as that is found everywhere.

You indicate that Noth. Lemmonii is "Plentiful enough" &c. Has any one else collected it but Pringle & me? It is local to a limited region on the S. W. side of the Santa Catalinas.

Of course I have long since had to give up Woodia Plummaria. Prof. C. after declaring that it was very probably distinct & so tempting me to describe it, afterward decides that it is a var. of W. obtusa (var. of W. Mexicana); while a specimen sent to New is declared by Baker to be near to W. incisa Hook & Grev. and this species you know, B. considers merely a var. of W. obtusa !!

When will you take up the Woodias & dispose of this motley genus?

Three Huachuca Mt. extend over the  
Mex. boundary & are 20 X 20 in extent, the  
range being longest north & south. The  
highest peaks are perhaps near 8,000 ft. The  
formation is mostly granite with ledges of  
lime & veins of quartz. This fort is loca-  
ted in the mouth of a long canyon running  
out of the north end of the range - hence it  
is comparatively cool & pleasant. Low-landed  
oaks dot the landscape like an old orchard of  
this. A small but permanent stream of pure &  
sweet water flows down the canyon. For fear  
of malaria we chose a location for our tent on  
a high ridge 100 ft above the creek, and over-  
looking the camp. A large oak shades the west  
of our tents, the rest being protected by a shade of  
brush upheld by poles <sup>laid on</sup> & posts.

For the last weeks of April my health declined  
alarmingly in Oakland, & this induced us to seek  
a sanitarium. I am a little better here, but  
still not as strong yet as usual. My wife has  
to work hard to keep the house in order &c.  
but her health is better here also. Soon the  
rains will begin to fall & we shall have to  
take great pains for safety & comfort. After the  
rains we hope to do much collecting.

Our expectation is not so much to discover  
more new things as to enrich our herbarium  
by those rare things collected by the Mex.  
Bord. Com. & which are not to be had now.

I fear we shall not be able to re-collect the  
curious woolly *Chlid.* on the Santa Cat.  
Be sure to send me a copy of your paper on  
that genus.

My wife joins in kind & continued regards.

Yours &c.

J. S. S. Connor

Fort Huachuca, Ariz. Jul. 1, '82.

My dear Dr. Gray.

Your favor of the

22<sup>nd</sup> is at hand. Many thanks. De Candolle is prompt in remitting.

Please draw a check for me on Wells Fargo, or on a well known N. Y. bank and forward ~~it~~ the check to me here. I will endorse & make it payable to a friend in Oakland & so the business can be concluded. You can do the same with other remittances, as they come along.

I hear from the box of plants I sent to the British Museum.

They give good satisfaction & the payment is on the way.

Mr. Barthers requests all the rest of our plants - after Compositae - and also all other

plants we may collect of the first orders. He is particularly pleased with our plants because there are so many new ones, one - the Calopogonium - I shall have to correct, in replying.

I'm glad that Dr. Cofron will have our plants soon.

Although I do not always think to acknowledge the printed matter usually enclosed in your letters yet I should do so & with warm thanks. I'm ~~am~~ grateful that you keep me thus posted, and several things lately sent are of especial interest. <sup>of your</sup> The comments upon N. Dailon's "Camposel" are of much interest as also Ward's new work on the flora of Washington D.C. and especially Bird's Office of Resinous Matters & Latex, as a "balm for wounds".

We look with anxiety & pleased anticipation for the "Contributions" next week. It seems it will show the latest collections of all the botanists on this coast - at least those that report their finds direct to you & Watson.

I am very unfortunate about the grapes. A letter just in from Dr. Thurber, is filled with apologies & excuses. My spec-  
are still untouched.

However, I must not complain. He declares that one attack of acute rheumatism quickly succeeding another has broken him down so that life seems little worth the living. Too bad, too bad! The Dr. further states that it is only by the greatest effort that <sup>his</sup> editorial work, - that upon which his daily bread depends - could be done.

Having had ~~so~~ <sup>such</sup> affliction myself, & also having to ~~as~~ <sup>ask</sup> such forbearance from friends, I most heartily sympathize with Dr. Thurber, and will wait his recovery, hoping that the vacation he is now taking will restore him bodily & mentally to his normal health, for no one else can do the work of Dr. Thurber <sup>Dr.</sup> you think of one in his special field, ~~can they?~~

This reminds. In a letter to

some Washington correspondent, in which I alluded to the want of determinations for my Grapes. The correspondent replied that Dr G. was too slow & uncertain; & advised me to apply in future to a certain young botanist, naming him.

Now, my dear Dr, in confidence do you think that we will have to change yet?

If only the Dr's names come in time for next winter's distribution I will be satisfied.

Two years ago I collected a kind of *Carex* in the Sanoita valley that Mr. Booth declared was new, & after since he has desired fuller specimens.

I find the same here in the upper part of this canon (Zuñuica) & also we went over to the Sanoita last week 30 miles, & collected abundant spec.

I wrap up and send a couple of species addressing them to you so that you & Mr. Watson can look at them, if you wish, then will you please hand them over to Mr. Booth —

We have already 9 packages of dried plants most of them named in one or the other of our "25-lb. s. books" which I will confess to having again brought along.

An occasional hour is vouchsafed us when the vertical sun is too blistering hot or a terrific storm of rain confines us to the tent, and when the necessary drudgery of camp life permits - to hastily turn over our few books.

Only one little space of the long reach of *Phanogonia* is bridged over, for we are that is the few orders in your Synoptical Flora of N. A. - Gymnopetalae after Comp.

But the Wheeler report shows what was uncollected by his botanists & a late letter from Dr. Rollrock is very helpful - as to localities - for we are just on his old stamping ground, - though at an earlier season.

Occasionally a plant is described in Torrey's Bot. Mex. Bond.

If a plant is not described in either of our books we conclude it is either



an old well-known Eastern species or a Mexican one — or finally that it is perhaps undescribed.

Our personal herbarium will be much enriched by this trip anyway.

We have now fine large fruited spec. of the Jatropha, of the Alden-  
landia that you called C. Wrightii, also another large-flowered species, fine, showery & fruiting spec. of Mimosa, Ranunc. macranthus, (with numerous large petals, and caducous sepals.) Ero-  
thera rosea, a very curious Aphelapsis with short, <sup>creeping</sup> scaly leaves, several forms of red thistles, Macrosiphonia brachysiphon, several strange Asclepias, Echinocereus Coburni and a beautiful yellow-flowered plant of the Amaryllis Fam. Only 2 flowers procured, but several bulbs & a package of seeds. Now that Prof. Dargent no longer corresponds with me I do not know whether the seeds of the plants met with here are wanted for the Cambridge gardens or not.

Please tell me if Prof. Goodale (when at home) desires <sup>will</sup> attend to the planting of seeds, bulbs, &c.

I must take another sheet - and refer to another topic mentioned in your letter. It is the unpleasant announcement that our mutual friend Mr. Pringle tells people that he showed certain plants to me, which I forwarded to you.

Mr. P. simply mistakes. He is in error in thinking that I had not have the same plants as he had for I roamed about the Santa Catalina, earlier than he <sup>at</sup> several seasons. On a certain occasion me, my wife & I, accompanied him by invitation, in his vehicle to Canon del Oro, on which occasion a few <sup>but not new things</sup> novelties, were picked <sup>up</sup> by us all, & I remember of sending 2 or 3 of these to you, <sup>the</sup> ~~autumn~~ <sup>autumn</sup> ~~summer~~ following, accompanied by the remark in each case, "Collected also by Pringle."

Now, I have never taken advantage of a brother collector by sending his discoveries to you, without reference to the fact of his previous collection.

But few of other's plants have come to me for sending, any way, as you know.

You know how careful I have  
always been of the credit due to  
Mrs. Ames & Mr. Austin, and you  
know the credit given to Mrs.  
Dr. Cord - only represented by the  
merest scrap of a Petalostemon,  
& you know how careful I have  
always been of my relations with  
Dr. Parry, & before him, with Dr.  
Colander.

No. My dear Dr. I don't see how  
any one can be more conscientious &  
careful than I, and I shall always  
continue so. I am very sorry  
that Pringle has conceived this fla-  
grant crime of me, and I totally  
~~disclaim~~ <sup>deny</sup> any degree of guilt.

Really I am quite unfortunate.  
Nearly every botanist on its coast  
in their order, pours a dose of virus  
into your mental sensorium and so  
keeps your mind poisoned against  
me, and really, as I think of it  
it is marvelous that your heart is  
not chilled or hardened too.

But I am assured by the hard work  
and the special favors you still do for  
me that if I keep right on working  
earnestly and honestly in the advancement  
of knowledge you will still be good  
enough to befriend the much-abused  
but entirely innocent botanist of the earlier  
& better times. Yours ever

J. G. Benson

Fort Huachuca, Ariz.,  
July 5. '82.

My dear Dr. Gray.

The "Contributions"  
and your favor of July 1. are safely  
in hand. Many thanks.

I will take many leisure  
hours to properly examine the  
voluminous "Contributions".

When I notice the great pains  
taken and study required to dis-  
cuss such genera<sup>as</sup> Aster and Solidago. I feel like resolving to  
never troubling you again with  
my plants. But then, to whom  
shall we go? We are too hard  
at work and desirous to know  
results to wait, - so must con-  
tinue to send to you.

Besides the information contained  
in the first part. I am delighted  
to have your final "disposition"  
of the A. A. Solidago.

But of course more present interest is centered upon the last part - the new things.

Your long absence abroad, has caused the number to be described to be very large, - and Prof. Watson is to publish some more.

Now I can see by this work as also by other late publications, who are the most fortunate collectors and where are the best regions.

What a fine array of N. Sp. is scored to Pringle! Scattered from D. Ariz. to N. Cal. he finds them along the well-beaten path of others. Well he deserves these triumphs for he is a tireless & painstaking gentleman. I wish I knew where to address a note of congratulation to him.

Then Dr. Perry & the Parishes have their usual good luck in reward for keen sight & diligent work.

I see that you could not keep my Dalea Reddingii from D. nana.

Well. Lets try to get a distinct & pretty species for this most helpful of Cal. scientists. this summer.

The Leptogia glandulifera I have often collected near San Bernardino but as often referred it to Leptogia bernardina.

The Erigeron Pringlei is sparsely met with in the highest rocks of these Mts.

I'm glad to have a full conspectus at least, of the Baccharis.

Mrs. Lemmon again heartily thanks you for her genus. She has been dancing around the comb & - day exclaiming "Just in time!" "A few months <sup>later</sup> ~~longer~~ & good Dr. Gray could not have used my maiden name."

We must try to revisit the locality in Sept. & re-collect it,

I did not understand before the change of Coreoscarpus to Leptosyne how it appears that the former is merged in the latter, - a like fate to that which we note with pleasure - has overtaken the Collomia.

Thanks to you & Dr. Engelmann for the Latin description of my Gutierrezia microcalyx.

In regard to collecting this season I fear it is to be limited. But at the rain has fallen and many predict a dry season. We have been as diligent as possible but have only a few species yet. No animals can be obtained & foot travel is tiresome.

To-morrow I start off for a partial circuit of the Mts. to be gone a week.

We are glad that Dr. Boker has also promptly remitted.

Please draw for me a draft on Wells, Fargo or any other good N. Y. bank. I will endorse it & forward to a friend in Oakland making it payable to him. This procedure will finish our business matters for the present.

Which do you prefer. that I send you a suite of such things as we now have making a usual package or to send all at a time next Nov?

Mrs L., has painted quite successfully a few of the most curious plants.

She joins me in continued regards to yourself. Mrs Gray & Prof. Watson.

Very respectfully & cordially

Yours ever. J. H. C. Common

25

My dear Mr. [illegible]

I have just received your letter of the 27th

and am glad to hear from you

and that you are well

I am writing you a few lines

to let you know that I am

very much interested in

the work you are doing

and hope to see you soon

Yours very truly

[illegible signature]

[illegible address]

[illegible address]

[illegible address]

[illegible address]

[illegible address]

[illegible address]

[illegible address]



Dear Sir,

I have the pleasure to inform you that the same has been forwarded to the proper authorities for their consideration.

I am, Sir, very respectfully,  
Your obedient servant,

al. [Signature]

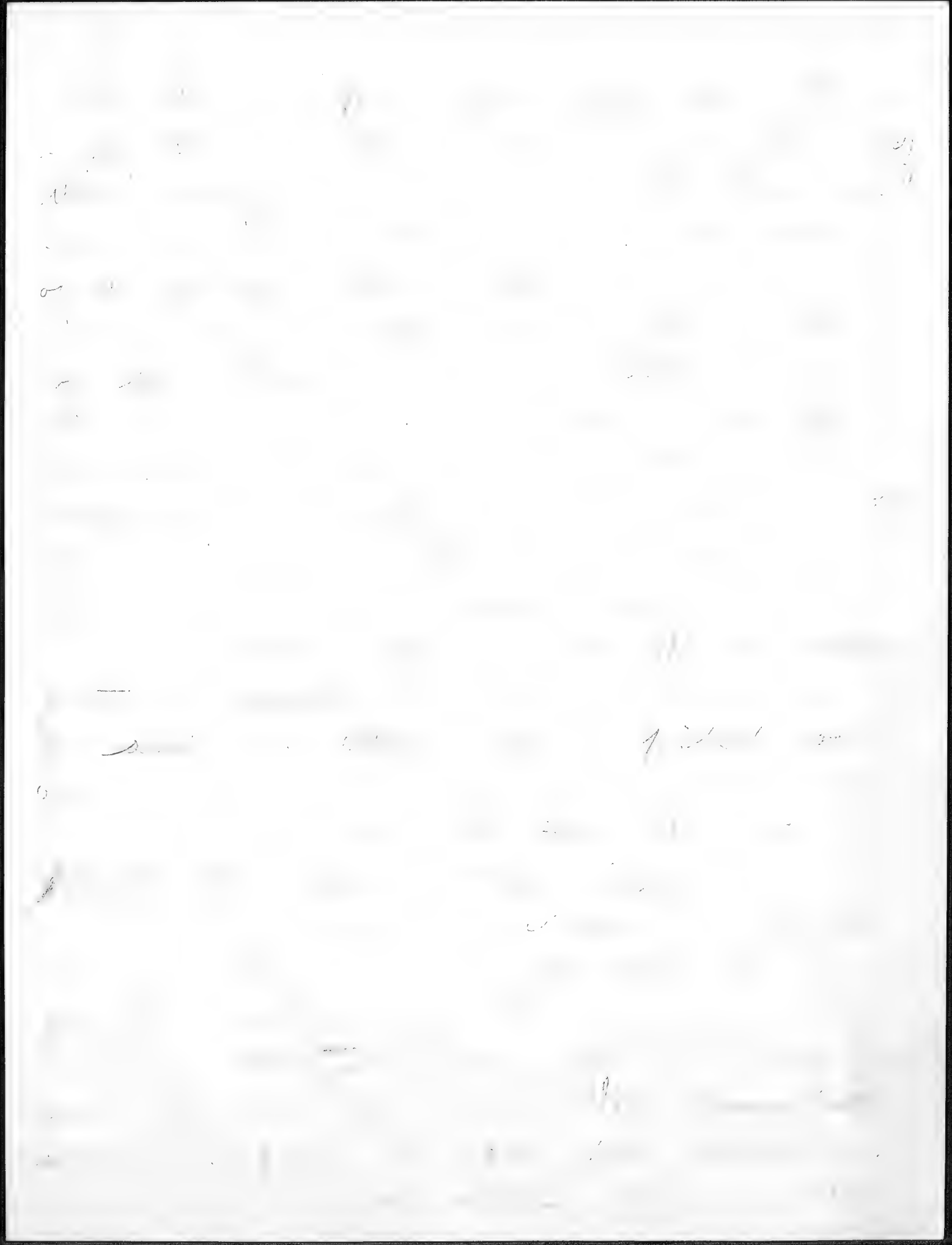
Yours faithfully,  
[Signature]

Fort Providence, Alaska  
July 12, 1900

At 10:30 a.m. I was  
at the top of the ridge  
on the left side of the river  
and looking down at the  
of the river and at the  
a building which is  
a part of the  
medium-sized house, each 1/2 - 1  
each one of a large range. I hope  
in a good 1/2 hour. I got it  
about 10:45. The top of the  
house is made of natural stone  
Copper River. It is built of  
stone. Many of the stones  
are of a size of 1 foot  
2000 feet in length and  
are covered with chips of stone  
found the way which is  
found in the river. I  
found a large number of



*[Faint, illegible handwritten text, possibly bleed-through from the reverse side of the page.]*



Richard, Jr.

7.

the Guachucos, & the <sup>men</sup> of  
the Conchos to be captured and  
the curiosities to be well made,  
but I did not tell of dangers  
in the way. The route lay  
across the border and over  
many a scene of late disaster.

At these points we passed over  
the ground where horrible bandits  
had massacred the settlers and  
run off their stock. Such  
a massacre was going on at one  
place not 5 miles from us  
but luckily we did not know  
it at the time. Perhaps  
more danger was imminent from  
the revolution going on in ~~Chihuahua~~.

Deserters & renegades were fleeing  
to our lines, generally half-starved,  
desperate creatures.

The cow-boys too, caused constant  
alarm. Their head-quarters <sup>were</sup> at Chub-  
ston only 12 miles from our cabin  
in the Guachuca, <sup>our home</sup> for three months.

Oakland, Cal., Nov. 6, '82

Our dear Dr. Gray

The best letter  
awaiting us at the herbarium  
is your good long one of the  
22nd inst.

Thanks for all the friendly  
things in it. in the way of  
orders, suggestions, congratulations  
advice &c.

A companion letter from Harry  
Patterson solicits the job of printing  
labels. We shall give him an  
order at once. He takes weeds  
for payment which is very good.

I think you will regard our  
this season's coll. as very good.

We took extra pains both in  
selecting the specimens and in  
handling afterward.

After our brief opportunity to collect several states of the same parent & this chance was always taken to introduce the 4 cures. Generally we took time to display flowers & straighten out leaves & stems.

There are so many plants that I had not seen before & which did not seem to be in either the Mex. Bond. Rep. nor in Schlecht's that I expect many new & rare things. He collected seeds of about 50 species of the most showy plants, but unfortunately we are not in communication with any one ordering them.

Mr Thompson of Eng. used to send for seeds but is silent of late. I fear he is not living, as he was in poor health.

Did I tell you of finding two species of native potatoes? No doubt they are Solanum fendleri &

S. famesii. I described them for the prof & many applications for tubers came in. Luckily I obtained 4 quarts of tubers, enough for all; also a handful of seed-balls from the largest kind.

McLean writes that Dr Parry once introduced tubers of S. fendleri and that he McLean, tried them for a few years, when the stock died appeared. we can't tell how, or why.

Do you know of any experiments? and if so, is the result favorable?

I do not wish to waste time on futile endeavors, nor to impose upon others. I am asking a dollar for a package of 6 tubers of each species and 6 balls of seed.

Some price must be put upon such things, I find. It must be appreciated, though.

I believe I gave you a programme of our contemplated last trip around the south end of



We like all your suggestions very well, & proceed to act thereon,

You may expect soon the first bundle of plants for determination. It will contain also, several duplicates, that may be laid aside as you suggest, for other & elsewhere,

By forwarding, thus, a few at a time you will not be so crowded, and it will be just as well for us, and we will go on putting up sets for - let me see, how many persons; -

- |   |                                         |                                                                                                                                                      |
|---|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | Dr. Copron.                             | $\left. \begin{array}{l} 1 \\ 2 \\ 3 \\ 4 \end{array} \right\} \begin{array}{l} \text{All to be boxed \& sent to Cambridge as freight.} \end{array}$ |
| 2 | Prof. De Candolle.                      |                                                                                                                                                      |
| 3 | " Baillier.                             |                                                                                                                                                      |
| 4 | " Darby, full set.                      |                                                                                                                                                      |
| 5 | Dr. Bazez, (also box), or ordered them. |                                                                                                                                                      |
| 6 | Ernst Patten for printing,              |                                                                                                                                                      |
| 7 | Any parties applying                    |                                                                                                                                                      |
- 10-

Of most of the plants we have <sup>or more</sup> over 20 good specimens.

Of course, we save up a good specimen of each plant for our own herbarium.

Despite the fact, that we both were well most of the time, and felt like work as never before for some weeks, we were both of flesh & we met, and I gained none. Yet we dreaded to return to the cold fogs of Oakland, as now recalled the aches & pains of head and spine. The climate of the Conchucos is just delightful & enables one to work all the while.

But with the advance of Autumn the plants vanished and the nuisances above recited. - Indians, cowboys &c. - became more imminent; so we made all haste to get away with our precious 5 boxes of plants and all our necessary equipments, to the train 18 miles away.

Art. Walton me stopped off  
for a few days to rest & to  
pick up our aged mother  
who visited with friends at  
San Bernardino & Riverside du-  
ring our absence

At Los Angeles I met with  
Mr. Kevin again and he took  
me over to Pasadena to call  
upon Mrs Dr. E. W. and give  
her some fern plants from  
our "Collopal Album,"

Mr K. had much to say on the  
road of his summer work. He  
is doing well upon certain dif-  
ficult things and I'm glad to  
see that you appreciate him.

He feels a little hurt because  
you did not accept of his name  
of ~~fruticosa~~ umbellata for the Gilia  
he marked up and sent to E. W. which  
& you named prostrata. I tell  
him that either you did not know  
of his name or that the name was  
prostrata or inapplicabile

I encouraged him to act upon  
your suggestion to collect and  
study up the Audubertias as  
he is just situated fortunately for  
the work.

I have not been to see him  
lately but acting upon information  
from Dr. B. W. he received him  
coldly - pity that such conduct  
is not to be tolerated.

Came into C. during a cold  
rain and fog which has con-  
tinued to date, making us all  
sick with violent headache, frost  
ache and cold extremities. Don  
hardly rally under the depressing at-  
mosphere, but we must go  
there is much to be done and  
the sooner the better.

Shall write at once to Barbey &  
Taxon for orders, as you suggest.

Perhaps do not need to advertise  
much, except in a few directions,

The ferns we collected largely of  
 so that we might have a lot  
 of plants to put into souvenirs  
 for sale. We picked up a few  
 dollars in albums last winter.

For these I mean to get pretty  
 little labels of tinted paper, printed  
 in patterns.

How you must have laughed  
 when you read in my Gazette or  
 title the statement that there  
 were only 80 species of ferns  
 in the northern U. S. It was  
 one of those strange slips which  
 one makes in hurried writing.

Ought me to send you ferns  
 too, for the herbarium?

I collected but few grapes, so  
 discouraging, not to have them  
 determined.

We have also your postal of  
late date asking about:-

Chamaecrista suffrutescens

Yes, I'm sure I collected it  
on the head-waters of Sac'to, river  
back, west of Dixon's place, for  
I visited the spot the next sea-  
son later and found the plants  
in seed; the large proppine  
being very conspicuous.

Likely Parish received his  
plant from Pringle, who perhaps,  
visited the same region, lately, or  
more probable, the plant ranges widely.

Dr Parry is at his old haunts  
in the city, We expect him  
over to-morrow.

Mr Greene is lecturing at  
the University in the absence of  
the regular tutor.

But you know more about  
these people than me.

A kind invitation is at  
hand from Redding soon, &  
since with the bereaved fami-  
ly soon. I'm B. B. Redding we  
have lost our best friend &  
the Pac. Coast its most use-  
ful scientist.

We are trying to find <sup>new</sup> rooms  
for our herbarium, there  
are on the north side of a large  
house, very convenient but  
cold and perhaps malarious.

Whatever the change our  
address will remain the same.  
Mrs. L. & our mother join  
in warmest regards.

Yours ever

J. G. Bernmore

3 1 1 1

76. (c)











I have been thinking of you a great deal lately. I hope you are well and happy. I have been very busy lately, but I have managed to find some time to write to you. I have been thinking of you a great deal lately. I hope you are well and happy. I have been very busy lately, but I have managed to find some time to write to you.

It is now white now, the  
trial fully, about getting good  
- some from me. But I think

[illegible]

I will make if a good report in  
- for you at once.

to turn all along a level till  
a form of Chilodactyl that I have  
observed to feed on the Chilodactyl  
was not, or rather, that a  
distinct species.

First one, which will be  
which has been called "the  
fine one" by the people.

Also noted is your opinion of  
the ~~Examination~~ Exhibition called on the  
Circular, Light Examination.

P. S.

You say you suggested  
a name for the Cheilanthes  
from the Chiricahua Mts. &  
that Prof. Eaton accepted it.

What was its name?

I wish you could see it in  
its habitat. So different from  
the other, the true C. myriophylla  
from the Huachuca. That  
lives in high vertical rock-clefts,  
the former around rocks on low,  
open plains.

The long-fronded, cottony Cheil.  
from the Santa Catalina I have  
no more to spare of. It is  
certainly 'creeping' like Cheil.  
Leidheimeri.

Have you any more of my  
desiderata?

J. G. L.

+ sent

[illegible]

Senh-Pwarhzi

✓ Seb-4) Alaska ferns

~~Dear Mr. [illegible]~~

~~[illegible]~~

~~[illegible]~~

~~[illegible]~~ X

~~[illegible]~~

~~[illegible]~~

~~[illegible]~~

~~[illegible]~~ X

~~[illegible]~~

For the [illegible] [illegible] [illegible]  
[illegible] in [illegible] & [illegible],

We shall be glad to [illegible]  
you for [illegible] [illegible] [illegible]  
of these, and to have them for-  
warded immediately.

J. B. [illegible]  
[illegible] [illegible]  
[illegible], [illegible].

✓ Aspid. jug. candidolei

Aspid. m. ... small found

also ...  
✓ Aspid. ...











Wichita, Kansas, 1883

Dear Mr. Tracy,

Here are our Sedges and  
wrapped from the Quadrace. The only col-  
lected a few of the being discouraged about  
getting a permanent.

Dr. Geo. V. Bailey asks to refer  
mine the papers for me. After  
you have looked the over please send  
them forward to him.

Have been sick again. I the now  
I had to mark, collecting them for an  
article in the native potatoes of Arizona.  
Grows in the same, to be collected on the  
the most of the facts I need, but I am  
desired to go more into detail of the history  
of the potatoes, &c.

Our mother is suffering from the terrible  
cancer in her breast, & her wife is much  
sick, & is very old, & is in our home.  
With you in warm regards.

H. G. Brown

To the Hon. Sec. of the Interior

Washington, D. C.

Dear Sir:

I have the honor to acknowledge

the receipt of your letter of the 10th inst. in relation to the proposed  
amendment to the act of March 3, 1879, relating to the  
protection of the Indians in the Territory of Alaska.  
I am sorry that I cannot give you a more  
satisfactory answer at this time.

The matter is now under consideration and I will  
be glad to hear from you again when I have  
been able to give you a more definite answer.  
Very respectfully,  
John D. Smith, Secretary of the Interior.

I am grateful to you for your  
kindness in allowing me to make



104. appears to be according to the  
description of Stell. granatum,  
the one in the Encyclopaedia.

1045. Did I not send you Stell.  
granatum this before? You  
see how the one is different, &  
also somewhat more colored, the  
more or the - is Stell. granatum  
Stell. granatum & the other.

As to the one you sent me  
of Stell. granatum, as my of it was,  
I hope you will make it out  
distinct, or Stell. granatum.

1046. Stell. granatum sent to Prof. Ent.  
on last winter & returned it as  
the Stell. granatum but I was  
never satisfied with it. I do  
not <sup>see</sup> what descriptions are good

1047. Stell. granatum sent to Prof. Ent.  
on last winter & returned it as  
the Stell. granatum but I was  
never satisfied with it. I do  
not <sup>see</sup> what descriptions are good

1048. Stell. granatum sent to Prof. Ent.  
on last winter & returned it as  
the Stell. granatum but I was  
never satisfied with it. I do  
not <sup>see</sup> what descriptions are good

1049. Stell. granatum sent to Prof. Ent.  
on last winter & returned it as  
the Stell. granatum but I was  
never satisfied with it. I do  
not <sup>see</sup> what descriptions are good









It is not far from the fact  
that the [unclear] [unclear] [unclear]  
[unclear] [unclear] [unclear] [unclear]  
[unclear] [unclear] [unclear] [unclear]  
[unclear] [unclear] [unclear] [unclear]  
[unclear] [unclear] [unclear] [unclear]

It is not far from the fact  
that the [unclear] [unclear] [unclear]  
supplied with [unclear] [unclear] [unclear]  
[unclear] [unclear] [unclear] [unclear]  
waited so long for [unclear] [unclear]  
[unclear] [unclear] [unclear] [unclear]  
[unclear] [unclear] [unclear] [unclear]  
[unclear] [unclear] [unclear] [unclear]  
[unclear] [unclear] [unclear] [unclear]  
[unclear] [unclear] [unclear] [unclear]

It is not far from the fact  
the [unclear] [unclear] [unclear] [unclear]  
[unclear] [unclear] [unclear] [unclear]  
[unclear] [unclear] [unclear] [unclear]  
[unclear] [unclear] [unclear] [unclear]  
[unclear] [unclear] [unclear] [unclear]

... ..

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I have been thinking of all the other  
 people who are in the world, and  
 how they are all suffering from  
 the same thing, and how they are  
 all trying to get out of it, and  
 how they are all trying to get  
 out of it, and how they are all  
 trying to get out of it, and how  
 they are all trying to get out of it.

*[Faint handwritten notes, possibly bleed-through from the reverse side.]*



Kingston

July 1st 1882

1882

1882

1882

1882

1882

1882

1882

1882

1882

1882

\$ 2.55

1882

1882

July 1904

*Lactuca*

I have been the driver along  
 a ~~trip~~ for the day, I am now at  
 the house and returned from the boat in the  
 morning and a report. Will send to the bar-  
 berian and of your desired traps as the man

Yes, I received your last contribution. Many thanks. I also received a letter this morning from Alexander!! Has returned from S.A., via Europe & etc. I shall be glad to hear from him. I am 121 for the time being.

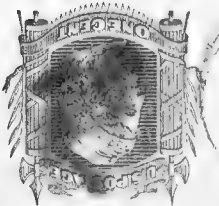
possibly

1911

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NOTHING BUT THE ADDRESS CAN BE PLACED ON THIS SIDE















I have been thinking of you  
 and your work in the  
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U. S. PACIFIC COAST FLORA.

*Cheilanthes myriophylla*, *Desv.*

"Conservatory Canyon," Huachuca Mts., Arizona,  
August, 1882.

Lemmon Herbarium, OAKLAND, California.



I have been thinking of you very much lately  
 and wondering how you are getting on.  
 I hope you are well and happy.  
 I have been very busy lately  
 but I will write to you soon.  
 I love you very much.  
 Your affectionate mother,  
 Mrs. J. H. H.

[illegible]

In my view, the only  
 solution to the problem of  
 the world is to have  
 a world government.

2. Tell me the value of the  
Cassiopeia nebula? It  
has a light blue color, but  
is much changed to red.

The first of these is the fact that the  
 Government has not yet decided whether  
 it will accept the offer of the  
 United States to purchase the  
 rights in the oil fields of the  
 Gulf of Mexico.

The first object of the  
 is a single one, to  
 find the ~~best~~ <sup>best</sup> ~~way~~ <sup>way</sup>  
 the whole collection of  
 these things (which by  
 nature is no small  
 is very extensive & some  
 men do, no other do.

For a report of how the  
"National Club" has been  
the result of the  
and so of the  
the result of the

Continued on p. 10, 11

11. 21. 22.

You, I see  
 the other numbered 624 and  
 625 were mine. and  
 you lost that to believe.  
 You started on May 1  
 May, or rather asked to  
 be excused from action  
 number 624. I have  
 examination.

Solved to find that they  
were interesting and also  
that all our 'staples' were  
getting scarce in now.

We are busy so health  
will prevent over our  
household plants, have



2.2.

What will you  
think of me that

James, of Tennessee, whom  
I know you state, last  
week, the Hartford  
declined to describe a  
new species of *Thom.* &  
I have transferred from  
the post-office in the  
Crown Union yard!

And Dr. Behr, described  
in Berlin. The massive old  
American manuscript is a  
new th. and, doubly  
enough, dedicated to &  
you as *Thomae Grogii*!!

This manuscript has been  
no very much since & so  
often bear you desired very  
sincerely by Behr, Kellogg, &c.  
Yours.

Thank you for the receipt of  
the money - and my sincerely  
affectionate regards to you  
and family. I hope you will  
continue to be well and happy.

As to the paper, I am not sure  
if I can do anything about it.  
But our motion picture light  
is excellent and we are  
satisfied with it and willing  
to pay for it. I shall have the  
picture of the house and plant?  
I will try to get it - & I  
will send it to you. I will  
also send you a letter to  
the publisher of the book.

I will go again to the house  
and try to get the picture of  
the house and plant. I shall  
send you so many pictures of  
the house. I shall send  
you a copy of the book. I  
shall send you a copy of the  
book. I shall send you a copy  
of the book. I shall send you  
a copy of the book. I shall  
send you a copy of the book.

Very truly,  
J. H. Thompson

1

October 14, 1911

Dear Mr. Thompson

Thank you for  
the copy of the book. I am  
very satisfied with it. I  
shall send you a copy of the  
book. I shall send you a copy  
of the book. I shall send you  
a copy of the book. I shall  
send you a copy of the book.  
I shall send you a copy of the  
book. I shall send you a copy  
of the book. I shall send you  
a copy of the book. I shall  
send you a copy of the book.

What disposition is to be made  
of the large collection from  
the New Conservatory?

[illegible]

with greater despatch, next winter.

We hope to get off southward soon after the summer rains have brought on the principal flora, & shall try to re-visit the wonderful Huachuca, & its neighbors. The N. Sp. is from that one range foot up over 30,00' with as many more but little known, much the richest harvest we have yet gathered.

Where do you go this coming vacation? Sir Joseph writes that he longs to stand under our Abies bastata, & Acers gigantea.

Mrs. L. & our mother joins in highest esteem and warmest regards.

Very truly yours,

J. G. Pennington.

1205 Franklin St.,

Oakland, Cal. May 16, '83.

My dear Dr. Gray,

By this mail we send you a package of Huachuca <sup>or other</sup> ferns that we promised you so long ago.

Several changes have been made in them since submitting but now all are put in place but one, the so-called Aspidium Harwiniskyanum.

The Cheilanthes are not yet disposed of satisfactorily, but we hope for much through Mr. Davenport's examination lately.

Also I put in the package some dozen odd things for determination. (my



notes on them - enclosed,.)

We have at last got through our immense collection to the end of Compositae, and have been sending off the small sets. The large ones you have been kind enough to order for botanists abroad, we still keep until all is done, then send as freight.

No word from Dr. Thurber yet. We hope to reach the Granite in June. I should much like to include them in our 16 sets.

Have been unable to work except at long intervals, and then only a few minutes at a time.

After this work in hand is completed, we shall not collect every thing we meet, but only strangers to us, and so we hope to be able to distribute our smaller stock

Oakland, Cal., May 24, '88.

Dear Dr. Gray

Your hurried Postal  
is at hand asking if Dr. Copson owes  
us anything. No. All is settled  
I believe. Of course we do not  
expect boxes for the set now being  
put up until it is your hands &  
has been approved of.

We will be obliged to suspend work  
for this season in a few days, per-  
haps at the end of Order Polymniaceae.

Then we will pack all in the plants  
for Boissier (2 sets,) Copson, de Candolle &  
British Museum into a box and send  
by freight to Cambridge, - as directed.

We regret very much that we could  
not get through the entire coll. this  
season but we have been too ill and

otherwise unavoidably distracted. The necessity of writing out nearly all the labels in full has caused much extra labor, and expense, as the packages sent to others besides yours must go by express of course.

We come upon a good many surprises in re-handling the plants, odd-forms and species, the fitting of them into place is such a delight. that compensation is therein found for much of our discouragements.

I'm looking up the I. pumila the other day I found 4 quite marked forms apparently representing the various descriptions of I. muricata Cav. but evidently comprising 2 species. Among many dozens of specimens I find the following characters:—

While all have tuberous roots, erect stems, solitary flowers, mucronate calyx-lobes, globose capsules and delicate, mostly finely digitated leaves yet they differ markedly from <sup>each</sup> other as follows:—

No 2833, sent - from last year from Tanner  
colly, & Guadalupe. 1894. Loc. 'F1, and

No 2836, from - the southern slope of the  
Guadalupe Mts. Sep. '82 agree in having  
oblong or short-fusiform roots, and strictly  
erect stems. They differ in their - the  
first has longer, narrower, rarely branching  
stems 6 - 14 inches long; the other has  
shorter, stouter, stems divaricately branching  
near the ground, 8 - 9 inches high giving  
the plant a tufted appearance. If the  
first form comprises most of the character  
of the original S. muralis of Carr, then  
the other may be called S. variegata.

No 2837, from Tanner's mill bottom, Guadalupe  
Mts. Sep. '82, & the closely allied

No 2838, from nearly the same locality and  
in having always small, globose roots  
about  $\frac{1}{2}$  inch in dia. with longer,  
trailing stems. Considering the first,

2839, with its regular digitate leaves is the  
leading form the species might bear  
the name of stemonotricha; the other form

No 2838, with its smaller, stouter stems,

... mostly undivided, ...  
... more or less lobbed ...  
... named by you? curvifolia, ~~curvifolia~~, - to the  
... rather ... curvifolia.  
... curvifolia.

This second plant has evidently  
come from ... with ... Rolfs  
L 307, he says of I. unguiculata, Cav. "at  
...", but ...  
L 307, I. unguiculata, Cav. comes under  
the heading "lobes palmately or he-  
tely divided" & "root on oblong tuber!"  
Evidently this globular-rooted form  
is distinct and undescribed, perhaps because  
the roots were not collected before.

How does this strike you?  
... in ...  
... the box ...  
... will please.  
...  
...

W. B. ...

P. S. Post. Office  
of determinations & Postal  
order all duly received  
Many thanks, J. J. B.

1285 Franklin Street.  
Oakland Cal. June 2, 1883.

My dear Dr. Gray.

To-day the box of  
Bot. Spec. starts, directed to "Dr. Asa  
Gray, Botanical Gardens, Cambridge,  
Mass.". Our R.R. Agent suggested  
that the freight be guaranteed at  
the other end of the line by me but  
not paid here, as then more pains  
would be taken to deliver.

We have worked as diligently as  
possible and have reached the end of  
Convolvulaceae. Putting in plants of the  
whole-coast as well as those of Arizona  
in the orders after Compositae. These  
orders we have never reached before  
so there is no danger of duplicating.

We hope the plants will arrive duly,  
and will bear the crucial test of sampling.

I enclose a statement of the number of plants for each of our patrons Boissier, Copson, De Gondolle and the British Museum, with amounts of prices at \$8, per century, which I believe, is the figure agreed upon.

I make out the account for the Brit. Museum in the name of Dr. Carruthers, but it may be necessary to have it charged to the 1<sup>st</sup> Librarian - as before.

Also you need not pay me & wait for their returns, unless it is just as well. I have heard nothing from the Museum for some time, but think the way I have arranged the matter will please all.

We desire you to take no especial trouble with our business and be in no hurry about the payments. If they come in before we are ready for Arizona - say about the middle of July, it will cause no trouble.

Tomorrow we go up to Sierra valley to rest & collect a few odd things for a month or so. Hoping you and Mrs B. and Prof. Watson & Goodale are all well and anticipating a good vacation I remain  
Yours gratefully  
J. G. Cunniff.

from the very  
 road, under the  
 the "Columbian"  
 ship - fire on  
 deal & the off to  
 the Apple land  
 soon against the  
 report to still  
 by the light  
 of the ship.  
 and crowd of old  
 find a small old  
 in a corner of the  
 a little of the  
 thing of the  
 and the ship  
 new to some  
 and is many  
 more of the  
 before it sailed  
 to be distinct.  
 Every small  
 thing, fossils from  
 in gray & others  
 adding it all  
 now, though, & he  
 last are, "Fishes  
 & common" and  
 "Fossils" & "Fossils"  
 & very small  
 there a few  
 for the specimen  
 in the well  
 because the lower.

a few more preliminary to starting the field  
 again in the zone, about the last of July.  
 The other of our trip, Baker & Tem has followed  
 us from Washington and in it he discusses the  
 terms sent him & I remember that you  
 desired me to report his determinations.

The Professor does not decide as much for  
 us as we desired, but his language is "falsified".  
 "The large Leptotheca I feel satisfied should  
 range under Leptotheca, a very common and  
 variable common species. Another in the series  
 is more than a form of this, &  
 "decide very much." He continues:

"The series of Leptotheca is very interesting  
 and we are disposed to place Leptotheca, Leptotheca,  
 & under Leptotheca as varieties, but  
 even you don't marked Leptotheca as  
 cede materially from the Mexican type by  
 the large scarious-like pale that covers  
 the center of the funnel. I expect this



is Fournier's Mexican scariosa, but the Peruvian plant is quite a distinct species, (This is the large green scaly B. from the high cliff of the Huachuca.)

"No 54," he says, "comes very near F & F of Larry & Palmer's Mexican Coll. I should say it was most probably a new species close upon B. Eatonii," I find (then why does he not name and describe it!)

He concludes: "I find nothing amongst our Mexican suite of myriophylla that precisely matches your 58, 61, & 65," and adds for a finale: "We are glad to see that so many interesting new species and varieties added to the States list are turning up through your explorations."

Now friend Davenport - you have his opinions, How I given out the forms of Chelidantes to you under the same numbers? I think so, so you can now compare notes and find what his supposed new species is (No 54.)

Having nothing with us here I do not know what forms numbers 58, 61 & 65 are. Only one thing is decided - scariosa, i. e. the scariosa is it, scariosa, while the scaly (myriophylla) is perhaps scariosa, and the varieties are unnamed, - but we may hear from the Prof. again. I hope your eyes are better & your botanical work progressing. This &c, joins in warmest regards, Yours cordially, J. P. Munson.

Please address all  
communications  
Oakland.

Sierra Valley, Cal., June 28, 1883,

My dear Dr. Gray.

Your two last favors of  
June 17, & 18<sup>th</sup> have followed up here where  
we are resting and recuperating for a few days.

We are glad to hear from you and  
that you have in its main, favorably  
received our late letter,

But we are pained & concerned that by  
reason of misunderstanding you, we have  
given you concern and trouble,

I do not desire my dear Dr. that you  
"keep to the" for me, and did not so  
intend when I sent you the letter for  
the several parties abroad who were to  
receive our plants, I thought they  
ought to accompany the plants and  
that you would merely forward them  
with the ~~plants~~ <sup>sets</sup> — at your leisure and  
pleasure. That is all.

But the fern matter is easier dis-  
posed of. Please destroy those bills  
sent you (except the one for Dr. Copson  
which please treat as your own,) and  
I will despatch other letters to-day  
the other parties  
containing other bills drawn up with  
ferns and all charged at the same rate.

It did not occur to me that these  
botanists would not prize our ferns as  
others do, so we charged the advertised  
prices, (which were advised by the fern-  
authorities at the East,) but now we see  
that it is best to retain those excellent  
patrons. Carruthers, Boissier, Copson & DeCandolle, for  
the rest of our plants in the lower orders  
which were not reached this year.

So please put down the ferns of Dr.  
Copson's lot at the same rates as the rest and  
let me hope for his continued patronage.

About the *Spongia* description I will do as you  
advise - collect more specimens and study them  
as well as forward promptly to you.

My health is improving, and Mrs L. and our  
mother are well and both join in warmest re-  
gards to yourself & Mrs. Gray.

Yours cordially

J. G. Peckham

Sierra Valley, July 18. 1883.

My dear Doanport, 1

Here comes your good long letter of the 7<sup>th</sup> inst in which you discuss at length the some questions raised by our recent collections in Ariz. More & more it appears that our forms are being examined by a master mind; that more and more the lines of demarcation are being better defined & the pliability of specific characters is recognized. In this connection I wish to report a peculiarity I have frequently met with, that is the variability of a <sup>plant</sup> ~~species~~ when you find it <sup>at</sup> in its head-quarters. It seems that plants found in their homes will sport & vary greatly, like the individual of a family, in the genus Homo. But when dispersion occurs the outer forms soon arrive at a state of fixity and become distinct species. Is not this thought of value in determinations?

We are greatly interested in all your work as shown both in the Catalogue Supplement and your other works. The copy of the Bot. Sup. is the first received & we thank you very much for it and the check list accompanying.

We gladly follow your innovations where with

steady brain and bold hand you tear away the  
filmy structure that has been built up for  
certain species and show them to be but  
marked varieties of species. But of course  
like you, we regret to see Chil. Eatonii  
taken away from the veteran author,

Some time ago Prof. Eaton wrote that Noth.  
nivea & dealbata could not be kept longer  
apart, also that Aspid. aculeatum and A.  
Abolirades must lie in bed together, & think  
that the ~~the~~ group of edison must still  
go on as we approach the head-quarters of  
families. I have specimens of Pellaea that  
apparently unite A. unittopus & P. brachyptera (in  
accordance with Eaton's views.) - both found on  
the same mountain near Ladang Valley.

Also I have specs of Noth. that unite  
tenera & nivea, &c, &c.

Your last letter discussing Prof. Bakers determin-  
ations is of especial interest. 'Stranger' is it not  
that he should keep up Aspid. pratense when  
Abolirades clearly precedes it?

But dear me, if you are right about the  
Chil. myriophylla (of brachnea), and it is not  
scariosa, then indeed there is much to be  
done with several forms of our so-called myrio-  
phylla.

We await with great anxiety your forthcoming paper upon the genus Chironomus,

We thank you very kindly for the pleasant terms of your announcement under Chironomus, & sp. and <sup>we</sup> shall strive hard to find confirmation of the species. But the hunt is a long one. For as time passed and hard trips succeeded each other the exact localities of early collections escape our memories. How that fern may be either in the Santa Catalina list, or the Chiricahuas many miles apart.

And now after we give you proper credits for your good and brave work will you pardon us for noticing a few points which discommode against us and our arduous labors as well.

In all your Catalogue there is <sup>no</sup> mention of Mrs. T. <sup>of</sup> common. She is most intimately connected with all the discoveries of 1881 & 1882.

As she hastily read down page after page it was painful to me to see her bright intelligent eyes half close with anguish then suffuse with tears. We know that you must be fully aware (for our publications) of her heroism, sacrifice and labors during two long seasons in Arizona, and this omission of her rightful credits is all the more surprising when we find that you always send her your kindest regards when writing to me.

Why if this Sp. only remained in camp. provided the ra-  
tions and dried out the specimens she would be en-  
titled to notice; on the contrary she generally ac-  
companied me to the very bones of the plants  
collected and moreover is an excellent botanist  
and <sup>a</sup> good leader of the science. Did you  
not notice that Prof. Eaton in publishing the  
very same fern gave equal credit to us?

2. Again, in the statement of Both, Lemmon,  
you print it "Santa Catalina Mts, Arizona 1880-81  
J. G. Lemmon and W. G. Pringle," which means  
that both Pringle and myself collected the fern  
on both years mentioned. This would entitle  
<sup>Pringle</sup> ~~him~~ to the honor of its name as much as I,

Now you certainly know that I explored in  
Arizona two years before Mr. Pringle came  
to this coast, and that I <sup>collected</sup> ~~discovered~~ that fern  
with <sup>a</sup> large number of other rare ones on my  
first trip in 1878. Prof. Eaton published the  
Both, Lemmon, <sup>and alluded to the others</sup> some time after I had  
sent it to him in the winter following.

3. Mr. Pringle first visited Arizona in 1881  
<sup>with the above exception,</sup>  
yet in all the catalogues you place his name  
first as the earlier collector.

But maybe you mean by the date the time  
when the plants were contributed to your herbarium.

If that is so the language is still misleading ~~and~~ <sup>as</sup> being quite at variance with the custom of other publishers.

Now please understand my dear Davenport, that we do not wish for favors, only simple justice.

Also please understand that we hold no hard feelings against Mr. Wright. We met him on several occasions and we suppose a state of mutual respect & esteem subsists between us.

We know him to be an excellent botanist - an indefatigable collector and he also is the most fortunate of men in having and means and robust health. So if favors were to be shown would you not incline towards poor invalid botanists? But justice forbids favoritism.

Now we trust this will not be called extreme sensitiveness on our part. The above criticisms are painfully drawn from sorrowing hearts, not written in anger or a petty spite. We remember that you too are much limited by trouble with your eyes and also in financial affairs. And we know that despite all you are doing noble work, and that you duly appreciate the labors of all co-workers in our lovely science, and finally that you fully understand the feelings all collectors



have about getting their credit. Dr. Gray, Dr. Parry, Dr. Engelmann and other botanists of 35 - 40 years standing are just as careful as the smaller fry about their dues. But while those veteran botanists have been able to get money in their purses also, we poor wrecks of humanity who must soon succumb to fate do not expect any other reward for toil, heroism, privation and study but honorable mention. And this from brother botanists is high praise indeed: it is Greek immortality.

We are finishing a splendid visit here and return to U. on Monday next. But there is much while preparing for Arizona. My health is very poor. I sleep but little and <sup>I am</sup> in much pain. But Mrs. L. is in better health than for many years. So busy painting the Lady Franklin City to-day. Our aged mother (who goes with us whenever and can accomplish the transportation) is anxious to be off for the City to witness the processions of the Templars Conclave. Write us at C. (1205 Franklin St.) and let us will follow us. Mrs. L. though in great pain, yet joins me in cordial warm regards.

Yours cordially  
J. S. Engelmann.

P. D.

I see from your Cat. Inf. that your  
herbarium is growing to be one of the finest  
if not the largest in America.

It must be consulted by hundreds and  
thousands of the future, so it is no small  
ambition to be a contributor to its con-  
tent, — and <sup>also</sup> to stand right upon the  
record.

Barbours, Oakland, Cal.

Aug 2. 1883.

My dear Dr,

Many thanks for your  
favors of July 24, & 25<sup>th</sup> and the <sup>various</sup> enclosures,  
especially the check. We are pained  
to hear of your late illness. Glad to  
find you so well recovered.

So the Erythrinum proves interesting  
as before. Luckily I have other speci-  
mens with ripe seeds which I enclose.

Also I have many other interesting  
things which I cannot take time to  
study & give notes about now.

All in confusion getting ready to  
start for Arizona. We better equipped  
than ever before. A letter from Gen.  
Schofield to Gen. Crook asking the latter  
to aid and protect us, &c.

Hope to re-visit the Santa Catalina, the  
Chiricahua & Huachuca, & other new places.

Very respectfully & Cordially. J. G. Cullen

Fort Bowie, A. T.,  
Sep. 9, 1883,

Our dear Dr. Gray,

Your letter of  
July 24 containing check  
on Boston for \$53.96, and  
one dated Aug. 25<sup>th</sup> have fol-  
lowed us down here.

Thanks for them both &  
especially for the check. No  
trouble in getting the cash.

Now comes a letter from  
Baipier containing a check on  
Geneva for \$68.75.

This finishes up all our  
plant dues except the 27.61  
from Dr. Carruthers, which  
no doubt will be forthcoming  
when he shall have received my  
last corrected account.

Glad you are working up  
the *Salinus* again. Will look  
out for them. None seen thus  
far. Very dry this time. Spent  
three weeks in the Santa Cata-  
linas, never more terrible than  
this time. The heat was  
almost prostrating.

However we climbed about considerably, recollected many good things including Dalea Pringlei and Jacquemontia Pringlei - the latter very fine and full-flowered.

I was surprised to meet with there, for the first time, the three large Euphorbiaceae plants described in Mex. Bond, as Enidosaculus angustidens, Janiplia Manihot and J. Loeflingii.

The <sup>probable</sup> new things met with are a beautiful Calandrinia and a very fine annual Lupinus.

I think I must forward a small package of odd things from here in a few days.

Our especial hunt here is for the Plumiera, & a new fern sparsely collected before.

Fear it is too dry for either & nature this season.

Mrs L. is busy among the prettiest plants with her brush when the weather & insects permit. We found the (Thurberia) Engelmiana, in very good condition, & noticed that the illustration in Mex. Bond, is incorrect, in giving the form

of the petals as obcordate whereas they are gibbous or widely extended on one side.

I have preserved spec. of single petals which will send.

We do not possess Pl. Thurb. so have not seen the description which may differ from the illustration. So beautiful

a plant, however, must be in cultivation & you, we doubt, have noticed this discrepancy.

It was fortunate enough to find good spec. of Moxima cordisphylle in fruit & with male fls.

Our mother writes us the sad news that Dr. Parry is fast-failing & is about to return to Liverpool.

Wonder if Dr. Engelmann is improving abroad.

Very respectfully

J. G. Hemmon

P.S. Also we find large (immature) plant of the Lagotis Lemmonii in a box canoe of the Santa Cat, thus locating it in the S.W. side of these Mts.

... decides that my ...  
... high cliffs & the  
... is ...  
... one ...  
... growing in soil around  
... on nearly level ground  
... is deficient in ...  
... because  
its folds are scattered along a  
... road.

however, I think it very  
near to Ph. Lindheimeri and Ph.  
myrioph. - as it reads into published  
character. I found it to be dis-  
tinct, this would be a good species  
for Starr - I am sure as it grows  
in our old botanical field &  
I also hope and it is very rare.

then 38 and 21. 2

1. I find that the cause  
of the increase, which is  
now being increase, is  
in the increase of the  
the increase of the increase.







The plant has a small greenish white  
flower which I found in a small bush which  
has full flowers much inferior  
to normal appearance.

Herbarium, 1205 Franklin St.,  
Oakland, Cal., Oct 26, '93.

My dear Dr. Gray,

We have returned home, escaping from the menacing wiles of Arizona, below <sup>Apache</sup> fever, &c., in good time. I am studying the plants collected and putting up specimens for you. & so forwarded in a few days. I like to find out all I can with the limited literature at hand, before submitting them.

I must have lost, i.e. must have omitted to receive a pamphlet of "Contributions" describing last year's new things named by you. I can't think them all quashed by later examination, as of course, sometimes happens.

Of the following I have no descriptions<sup>so far</sup> -  
*Cologania Lemmonii*, *Artemisia Lemmonii*, *Stevia mobilis*,  
*Erigeron* " *Grubbsii* *Arizonicum*, *Grassia discolor*,  
" *Arizonicum*, *Helianthus* *Shrevei*, *Angelica Lemmonii*,  
*Senecio* *Buckleyanus*, *Sceloporus* *Lemmonii*, *Ipomoea* "  
*Margaritana Lemmonii*, *Persea* *Arizonensis* " *canifolia*  
D.C. C.C. H.C.

I have two or three fine things from  
the Santa Catalina Mts. — that stor-  
house of curious things that has  
me completely, I can't even get  
them into genera, you shall  
see them presently and then I look  
for delightful arrangements.

I have one case of a new <sup>plant</sup> from  
collected last winter — No 2852 called  
*P. rubescens* N. S. ? I think it the same  
as No 2851 *P. brevifolia stenophylla*, but  
the flowers discolored by poor treatment.

Plantations from the same locality this  
season display no different colors or  
other differential characters. One package  
last season I remember was spoiled by  
raining weather. I think it was this pentstemon  
and the *Asclepias Lemmonii*.

I must print a full list this winter  
of all our Arizona collection, for the  
correction of errors in labels sent out.

I never have printed lists but must  
now do so, in justice to botany.

The people at Berkeley gave us a  
fine reception on our return. We  
talked upon the subject of "Fossils and  
Flowers of Tertiary in Arizona" illus-  
trating with boxes of mounted specimens  
and paintings. The Coal Society  
here, have been delayed for want of water,  
and are waiting for "rain" next  
week. We consider us as  
invited from the evening, and  
welcome us back.

In your late letters you report such  
good news. We hope you are restored again.  
You and Dr. Engelmann and Dr. Perry can-  
not be spared yet.

Look for<sup>a</sup> big package soon.

Yours as ever.

J. G. Bennett.

What shall we do about the promised  
rent so long ago to Dr. Hunker? We need  
the admissions at least. We have already  
lost the credit of discounting away them.

Fortranum, P. Island, Cal. Oct. 11, '98

My dear Mr. May,

Your letter of the 10th inst.

has just come to hand, and I am glad to hear  
that you are well and happy.

I am very glad to hear that you are well and happy.

I am very glad to hear that you are well and happy.

I am very glad to hear that you are well and happy.

I am very glad to hear that you are well and happy.

I am very glad to hear that you are well and happy.

I am very glad to hear that you are well and happy.

I am very glad to hear that you are well and happy.

I am very glad to hear that you are well and happy.





3. 2.

My dear Sir,

I have the honor to receive

your letter of the 10th inst.

he

in relation to the matter of

the proposed amendment to the

constitution, which you will find in

enclosure. This point is one of

little of credit since 1870, and

therefore the committee on the

subject have not been able to

obtain a majority of the

and finally the committee

have decided to report

thereon, and I am sure that

the committee will be able to

present a report which will

be of great value to the

convention, and I am sure

that the committee will be

able to present a report which

will be of great value to the

convention, and I am sure

that the committee will be

able to present a report which

will be of great value to the

convention, and I am sure





We are glad that it was only an oversight in "Bot. Contrib." not to include me in all publications since '81. The labor and privation is so hard for her and there is little allowance, she is sorely pained by it - of course, asks only for proper recognition. The same for me, I do not especially desire that plants be named for me. It shows activity, and success in discovery, that is all, and of this of course, I should be proud.

You write "I should think you would tire of Germann's". Why should I when I have Prof. Bolander, Greene, Parish & so many others of similar honors.

You will give me the credit of rather flattering you by asking how I get along. I believe I am almost alone in this practice.

Wentworth, my dear Dr. we are grateful to you for all honors and honorable mentions, and I wish no more for it. The chief cause of the community of certain of our Cal. roads,

You have forgotten that our grapes - a large bundle of them - were sent some years ago to Dr. Engelman. It is of them we speak and desire determinations. I have written to Dr. Vasey asking if he will determine them. If he consents, then I will request Dr. Engelman to forward them.

As this will reach you before the holidays and take the opportunity to extend hearty wishes that the festive season will find you able to enjoy it to the full.

Very cordially Yours  
J. H. Engelman

Common - *Tricharium*.  
12 S. Franklin St. Oakland, Cal.  
Dec. 5<sup>th</sup> 1883.

My dear Dr. Gray,

Your kind favor of the 28<sup>th</sup> is at hand with its touching allusion to your 83<sup>rd</sup> birth day, lately passed, and revealing the great work in hand of preparing our flora. working up our new things, correcting errors &c.

No wonder mistakes creep in under so great a pressure and trouble. Let us subscribe at once for the Flora.

We do not desire another copy of the present Botany of Cal. to me. Our marked volumes are instructive as showing advancement and discovery.

We see now that it has been a sad task for you to determine and describe plants

for us and the rest, but then  
when you do have to succumb—  
which we hope may be long  
postponed.— you will have  
achieved almost unexampled re-  
nown as an author.

It is hoped that our spirits  
may look backward, or even visit  
early associations and take cog-  
nition of human experience. If  
so what a heaven will be yours!

You intimate that you may  
soon have "done with such  
work" i.e. describing &c.

Do you mean that the publi-  
cations referred to as having now  
begun will remove the necessity?

I'm sure it will, <sup>in a measure</sup> but as  
long as a dozen explorers of new  
work in new fields come out  
must describe our ~~work~~ and  
fit them into your work.

Is Mr Greene able to do it?

He is now after all the old  
head, and hard at work, his  
church scandal affair terminated  
in his favorable acquittal, but  
unfortunately, his habits are much  
against him in quiet circles.

This need not and does not  
interfere with his scientific work.

But there is more work than  
any one man can do, and, alas!  
a sad lack of harmony.

Prof Bolander and Dr Behr, do not  
speak to each other. Prof Jones and Dr  
Terry are at pistol points. Kellogg  
Harford, Curran and Hooker are en-  
gaged in magnifying the early work  
of Dr Kellogg, and belittling that  
of Dr. Gray, and Prof Bolander, &c.

Well, well. Perhaps twice over there and  
so this is often all a kindly world  
and these raspings only bring out  
the clear cut features of true genius,  
and by it, somehow, development ensues.

1285 Franklin St.

Oakland, Cal. Dec 27, '87.

My dear Dr. Lacey,

Thanks for your  
kind favor of the 18<sup>th</sup>.

Glad that Dr. Thurber has set to work  
upon our grapes. Those in his  
hands were mostly of the <sup>large</sup> collection  
of '81 in Arizona. So then I added  
a package from California.

The few grapes collected last year  
were sent to you and were duly de-  
termined. as also the few collected  
this season. all nicely named up except 2 *Panicum*,

so with these - for which we have  
so long waited - ends our wants.

While those were unnamed, I dared  
not attempt to determine any collected,  
hence my nervousness - if you may  
call it such.

All happily settled now.

I was just sitting down to write

now that Dr. Bacey had written requesting  
to buy the plant (grapes) in Thurber's  
hands, being desirous to have them  
for study before issuing a contemplated  
"full synopsis of N. A. grapes."

In case Dr. Thurber sent the plants to  
you I was about to acquaint you with  
this fact, and then, if you thought best,  
Bacey could have the plants instead of  
Prof. Scribner, as you lately proposed.

All right now. It seems me are  
no less ~~surprised~~ <sup>surprised</sup> than you at this  
sudden return of Dr. T. to the specialty  
in which he is so expert.

My dear friend, you do indeed show your-  
self the best of friends, to even wound  
me, as Solomon says, in order to reform me.  
I have been quivering for the last hour  
with the thought of your kind warning.

O, what a goose I am! To have been the  
only one of all to ask for honors - yet  
I know all the time that I was the least de-  
-serving.

This comes of the feeling that I was  
short-lived: had only a few days or  
months ~~to~~ <sup>for</sup> work. I have never had  
proper support; or encouragement at home.

My brothers inimical, my collections  
bundled about for years before I could  
gain respectful treatment. If ever  
my matter was always hopeful but was  
powerless to help. In this hopeless, feverish  
state, I became too anxious to make a  
mark before falling. In constant pain  
and trouble of the head, I suppose some  
very unwise thoughts have been allowed to  
drip from the pen. Too bad!

And, it seems, you, my dear Dr., of all the  
activities, excuse the fault, and kindly tell  
me of it. My deepest-gratitude shall ever  
flow for this high honor, to be held in such  
estimation by good Dr. B. that he wounds to  
heal.

If I may add another word, in palliation,  
it is this. The botanists have all noticed that  
I was but barely mentioned in Bot. Cal. No 2, by

to Glumbe, and so said in astonishment, "I do  
not ~~know~~ ~~as~~ ~~to~~ ~~not~~ collect grapes," Whereas I  
do always carefully collect. Perhaps, (I do not  
doubt it.) I called the attention of Dr. D. to this  
singular fact, ~~that~~ <sup>of</sup> his Isomines.

I know I have asked Prof Eaton to name a  
~~new~~ ~~form~~ ~~for~~ ~~me~~, invited ~~thereby~~ <sup>by</sup> his previous  
declaration that he was going to name the next  
new fern for me &c., Mr. Savenport has re-  
cently declared that he must name a fern for me  
&c. - will he consent, but we can stop him.

But I will say no more, (if that be feared,  
another matter I must speak of, in justice to  
myself.) Your previous letter asks "What was  
the church scandal from which Mr. Greene has  
been acquitted." "He often writes me but says  
no word of any trouble."

Now that I have committed another blunder in  
saying so much, I must ~~still~~ shield myself  
a little by stating that for weeks the <sup>city</sup> papers  
had articles headed "The Berkeley church scandal"  
and from time to time particulars were given.  
I did not read them, nor my family. We  
always defended him in society because he  
was a botanist, always ignoring his treatment of me,  
at the time, a year ago. (of which I wrote you.)

To be certain about this Greene affair. I have just been over to consult the Rev. Robert Whitwood. Episcopal clergyman of this city.

He says the trouble was mainly of an ecclesiastical character - a difference of opinion in regard to vestry rights - and although a decision has been reached <sup>in the</sup> law, the difficulty is by no means settled; (so says Bishop Rip. of D. C.)

All the other reports - that Mr Greene was guilty of gross immoralities - are no doubt trumped up, on little or no foundation. The contention of parties is undeniably very bitter.

This comes from a fellow clergyman and was communicated in the kindest manner, declaring that nothing has occurred that could affect his standing as a scientist. - the same language I used in the letter to you, you remember.

There. I've learned another lesson. No more chat from me about my neighbors.

Shall keep strictly to botany a subject big enough to be sure.

Have just finished the Grubbe family. Found several species not submitted to you, viz: Polionintha incana, & P. mollis, Salvia Ari-  
zonica,



Monarda pectinata, and the two named  
vars of M. fistulosa, viz. media & molle, &c  
and to-day the first thing among the Verbenaceae.  
I find a puzzle which appears to be a fine  
grained spec. of Bouchea, as it forms but 2  
scutella which are linear, <sup>these</sup> nearly half an inch  
long.) If a Bouchea it is in the pot I,  
but evidently not B. Ehrenbergii, for in that  
the spikes are "short, <sup>+</sup> fls. crowded," "tip of fruit  
exserted from the shortish tube of calyx," while  
in the present species the spikes are elongated,  
the flowers scattered, alternate, and the fruit  
is exserted from the long, tubular calyx.

I have but one spec. but must send it  
to you with a few other funerals we are laying  
aside for you when all are revised.

These include two or three Minuli, which do  
<sup>not</sup> fit nicely into any place I can discover for them.

Some of these plants I have not seen since  
their collection, it may be, years ago before we  
had any descriptions. They are tied up in  
bundles to be ready for the movers of which I  
have been obliged to make four in this city.

Letters are received from M. Boissier and  
others making application for the remainder  
of our collection. I have replied & ~~am~~ &  
hurried all the diligence possible.

This reminds me, I shall have  
to trouble you again, my dear Dr, & re-  
ceive, and forward them for me, ~~as before~~, <sup>or</sup>  
or shall I ask other parties to aid me?

The potato subject continues lively, ardent  
expectations being cherished by certain cultivators  
in which, of course, I do ~~not~~ <sup>occasionally</sup> share.

The most curious results are reported by  
the Paris, London, &c. I send him  
& others of a form found high up on the Rock,  
say 9,000 feet, also seed balls of the same. This  
form had barely three leaflets, often, simple, &c.  
Among these & was a round one with barely  
visible eyes. This tuber was the first to sprout  
and was planted in a pot March 1<sup>st</sup>. It grew  
rapidly, and <sup>June 1<sup>st</sup></sup> was transplanted out in the ground.  
where it bloomed and bore plenty of seed balls.

The stems reached 1 foot high, and the most  
curious phenomenon then occurred. From



The size of the leaves, up as high as four or five  
inches, branches started out, turned downward and  
the sharp needle-like points penetrated the  
earth. The leaves "tri-furcate" he writes but I  
suppose he must mean *Wimala*, with 3 leaflets.  
on plants from  
both the tuber and the seeds; fls. small  
up than 1/2 inch, pale reddish purple, seldom more  
than three; and never more than two producing fruit,  
which is green round along, green with brownish  
purple base, dotted with white. As the fruit  
ripens it becomes olive green, soft, and gives  
out an agreeable odor like violets. Tubers on  
long stems, glaucous, skin smooth, white, not  
changing to another color as soon as is much  
as the other tubers, double the size of the ones  
planted. The seedlings being very large and the  
tuber glaucous, rather than brown, and the  
leaves of a different color from the others, being green  
and the largest - tall! Considerable water is  
the abundance of the tubers, the same the  
tubers still forming tubers in fact, the tubers  
more than.

There, my dear Sir, I've drawn this out to  
a tiresome extent. Please pardon.

Mrs L. will add a sheet also.

As other meals as usual, all have enjoyed the  
usual Christmas turkey and festivities with dear  
friends.

This will almost reach you by New Year's day  
and with it please receive our greetings for 1884.

Humblly but affectionately Yours

L. S. Penman.

1205 Franklin St. Oakland, Cal. 12-28-1883.  
Dear Dr. Gray,

Your recent letters to Mr. Leemore set me a thinking that perhaps I am remaining silent too long a time and so may be misconstrued. You may think that I am angry or ever pained or worse, that I am wronging you unreasonably. In none of these phases would I have you consider me, because they are quite foreign to my heart or spirit. I was pained deeply, to be sure, so that for the time, my heart was too heavy for words, but the twinges are all over now - nothing chronic about the case. It was a touch of human weakness <sup>is not foreign to</sup> which, poor human nature, is it? I frankly confess that the pain was inevitable. I note all the other collectors in the field, some of the gentlemen whom I knew had not explored as persistently or continuously <sup>but each night</sup> with their proper credits, as recorded proofs of their labors. It flashed upon <sup>from the first</sup> me that whether my name were Chumney or Leemore the work should be recognized like any other botanist or collector & when after three or more years of exposure to hardships, deprivations, dangers & all the concomitants that must needs come, the non-record, pained me not.

a little. Our work is so limited in the field as well as out, that it seems like that of one - is indeed it is till the summing up of the season's work. In the busy ingrossing life it had not once flitted across my mind that the plants so close to me in their wild homes would next appear in the books without me. It was a painful surprise but let the matter drop. You write: "Let this Semmen not forget - that not often is there a genus both for a man and his wife." True and is it not also correspondingly true that not often are man and wife so directly & constantly exploring in the field? This is not for argument - I do not forget dear Dr. the proper records as they come naturally along the rugged but pleasant way. And I hope that due appreciation is felt - perhaps as deep, if rather quiet in demonstrations. It is all earnest work, and my heart is in the beloved science for itself alone. Future labor will be just as unremitting - and accruing experience will make the work more & more thorough, it is to be hoped - as we go on with unabated effort, as opportunities arise. We have all along planned to do continuous exploring, is long a time as possible. Taking each season one or more Mt. ranges and carefully searching the highways and all out-of-the-way places. It may take 4-5 years more. After that try to learn something

for the rainy days ahead. We hope you will be spared with health and strength for many future years to still haul on and up in the work. This is the beginning of a wish with the beginning of the new year.

Now for a passing word as to special work. Soon after our return from Arizona this season, at a regular meeting of the Cal. Acad. of Sci. I ventured a brief report, with dissection of the blackboard & a water-color sketch made on the stairs upon that peculiar twist in the claw of the petals of *Sarcocolla* May. In sketching the plant that peculiarity attracted my attention, as it does not appear in Herb. Specimens. The twist in the claw causes the petal to invariably stand longitudinal to the axis of the plant. As I had never seen a plant behave this way before it proved very interesting. Wonder if this has any relation to the similar behavior of leaves that we often notice in the South. — Also in sketching the *Inguicularia triloba*, <sup>it was noticed that</sup> the petals are invariably dimidiate. In its home, in full vigor it is a beautiful plant, and I enjoyed sketching its bright-airy foliage & showy flowers.

With best wishes for the new year to you, Mary as well as yourself,

Believe me your highly attached  
J. G. Semmen

Christmas festivities have  
sadly interrupted work in  
the herbarium. But I hope  
they will soon cease.

I enjoy very much the overhauling of packages of plants that have not seen the light for 4 to 8 years. We have had to move 4 times and are always ready to pack up and leave.

What was the other  
firm that you spoke of  
as about to be published by  
Prof. Eaton?

Please keep no postcard about all your discoveries and labors.

Hoping that you are well  
and enjoying the privileges of  
the new year at their full I am  
truly & sincerely yours,  
J. P. Common.

1205. Franklin St.  
Oakland, Cal.  
Jan. 3. '84.

Friend Danforth,

Yes. That little fern sent you is no doubt Cherl. Cal. On a careful examination the day after sending I came to this conclusion. Again, the

Pellaea sent - you are certainly  
different from each other; the  
one being P. *crinitipes* the  
other P. *brachyptera*. But how  
singular that they should  
be found thus together,

I see you put up the  
*Solidium* different from Prof  
 Eaton, ~~the var.~~ of that  
 polymorphous species *A. ac-*  
*etum* & I see make the

include <sup>var.</sup> scopulinum, Cat.

You will some day go a step further and include our so-called A. bolivoides, among the forms of A. aculeatum.

But really, is not the scopulinum I sent you (that large one that was returned, I mean to A. boliv than to the common forms of A. acuminatum? That is the clarification Eaton gave consent to in a letter, and so I put it so in my Cat. of Pac. Ferns,

I must put out a 2<sup>nd</sup> ed. soon embracing a new method of teaching the science, which came to me last winter.

I have a form of Pellaea that is a hurdler.

It resembles P. brightiana and especially the form from La Purisima which you called var. compacta, (2 years after I called it var. Californica.)

I must send you a spec. of this hurdler. It is too large and strict to fit into any description I have examined, unless it be the typical form <sup>of P. brightiana</sup> which you know I have had no chance to see.

I hope you will find a bit of Ch. Pringlei to spare me.

What a curious and pretty spec it is! How delighted Pringle must be. I should like to congratulate the worthy fellow.





Among the tubers sent to Prof. C. D. Mumford, of Fort Collins, Col., for trial was one that I found on the high slopes of the *Siachucas*. The plant was small, the leaves often merely simple and almost orbicular. Larger leaves were more developed, i.e. had three leaflets, a pair & an odd one, all nearly round. The flowers <sup>only 2 or 3</sup> were <sup>& the umbell.</sup> small, pale purple, followed by large oblong seed balls. I do not know why I did not send you specimens. The plants were fully described before the Acad. and figured on the black board, but the printer of the Overland Monthly, desiring to shorten my article omitted all mention of this species - as well as much else I thought of importance.

Now it happens that this proved a very odd behaving solanum.

I quote <sup>extracts</sup> from Prof. Mumford's letter:—

"The tubers you sent me seem to be all of one sort except one, which differs from either of the species you describe, and the seed balls sent seem to be of this species."

(+) "One of the tubers was one that was very round, with barely visible eyes, it is one begun to sprout first and was planted (brought) set in a pot, where it grew rapidly. In June (1<sup>st</sup>) it was set out in the ground, where it bloomed and bore <sup>plenty of</sup> fruit, I intended to save seed for you but had to leave here in July, and when I returned the vines were decaying or dead, the stems grew about a foot high, and above the curious phanerogamous lichen, runners were sent out, as high as four or five inches <sup>at</sup> above the stem, down into the earth,

"These runners started from the axil of a leaf like a branch except having no leaves, and on almost needle-like point, which bending down entered the earth,

"Leaves tripinnate" (he must here refer to the 3 leaflets, a pair and an odd one,) "both on plant from tuber and from seed.

Flowers small less than  $\frac{1}{2}$  inch, pale reddish-purple, seldom more than three, never more than two producing seed-balls, the latter roundish-oblong, green with brownish purple spots toward the base, spotted with white,



"In the fruit refers, it fades to an olive green, becomes soft, and has a decided agreeable odor, like that of the violet. Refers on long stems, perfectly round, skin smooth, white, not soon changing to a dark line on exposure, these tubers fully double the size of the one planted and I have them from the seedling plants fully as large as from the tuber planted",

Now what have we here? Certainly a *Solanum* that behaves like *S. Almonds*, described by Carrière. I am very sorry that I did not send you a specimen, I put them in with the forms of *S. tuberosum*, in distributing. I remember that the stolons were often above ground where I dug them, striking the earth among leaves and plants a foot or so away from the stem.

Well, Mr. Mumford has heard from me and others are this and will take good care to multiply the species. I have sent for some tubers and seed to try them in our forcing climate. I have also written Prof. Kewen about the wonder, also to the *American Naturalist*, and I have just written to M. Carrière for a copy of the *Revue Horticole* for comparison.

Of course the character of the  
~~low~~ species is not commended its value  
 to cultivation, but - that may be changed  
 in time.

This leads me to remark that all  
 your ~~you~~ comments on my potato  
 projects have been duly weighed, and they  
 have been proven correct so far.

You wrote me that "these potatoes would  
 not amount to much as potatoes," &c.

The most noteworthy remark from you  
 was that you never heard of Rev. Chas. C.  
 Goodrich and his philanthropic labors.

And is all that nice story in Hopley's  
 Encyclopedia a pleasant fiction? I found  
 it in my cupboard in old Boston.

About this potato business I have heard  
 this hint. The specimens found down  
 at the base of Mts. in gardens &c., es-  
 pecially those dug over year after year  
 by the Indians may be expected to be  
 incorrigable. Others, from the mountain  
 tops, stand a chance of being new strains  
 if not cultivable ones. So not - this  
 a legitimate inference?

Of these forms found on the high forested north slopes of the highest peaks there were two, that were yet visible when I ascended the peaks. (in Sept.)

I had previously been in correspondence with Prof. Mumford and judged him to be a thorough experimenter so sent him specimens of all the different tubers I had. But they had been mixed by a R.R. accident.

Some of the first to sprout were sent to our Berkeley experimental gardens, but <sup>they</sup> were not given proper treatment & failed.

Among these were the greater part of the more interesting globular tubers.

About our grapes. Of course we sent to Dr. Thurber only specimens of our <sup>late</sup> collection, and the number was very large. Wonder if Dr. T. has commenced work upon them. Of course he is to have the spect<sup>r</sup> for his pains, as in other cases. If any prove of interest, Dr. Avery will be supplied with spect<sup>r</sup> by us.

Dr. Caruthers has but lately received his plants. That accounts for silence. Glad to know.

We look with great interest for the forthcoming "Synopsis of the Compositae". Please send us an early copy, and name your equivalent. Yours hopefully, J. D. S. Munson

1215 Franklin St., Oakland,  
Feb. 4, '84

My dear Dr. Gray,

Your favor of 1<sup>st</sup>

23<sup>rd</sup> is at hand.

Glad to hear of the progress made  
in the forthcoming flora. Of course  
you must be excused from much other  
work.

Of course I duly received the article  
on nomenclature. Read it with great  
interest and laid it by until I should  
have occasion to write you on the  
subject. Too bad.

Why trouble Dr. Thurber any more  
about our grapes. He has written me  
two apologetic letters, the last one some  
a year ago, in which he declares his  
lack of time in consequence of work  
and distraction consequent upon his duties  
on the Agriculturist.

Now Dr. Pursey kindly offers to buy  
the specimen, determine and report upon

them immediately. I am in just the  
most most most most

I am about 8 months by the time  
an authority would receive and by the  
year work report, I think I shall hope  
to arrive at the grades, for which  
I have now waited 2 years and 3  
months for determinations, I do  
not have to determine for myself  
so difficult a game. Besides, perhaps  
a large part of the Arizona grades  
are not described in my work in my  
preparation. I have never desired  
the order for work of a student, with  
the report looked for.

I am sure Dr. Lumber ought not to  
be displeased with this arrangement.  
If any one has a right to be dis-  
pleased it is I. But I will  
not allow myself to descend to that  
state. I am sorely disappointed and  
militated because I have to confess  
ignorance of this interesting family.



of, from the N. E. & the  
-hol, just -ing, our row,  
And here we might have  
one it desired, But  
will be risky, owners  
will not when we  
are on the deep roads, and  
to ~~the~~ <sup>the</sup> ~~the~~ <sup>the</sup> to return in  
mid season, should not do,  
to miss, pack of in a  
few days and hire our  
goods stored make our  
return.

I went to the ... and ...  
 ... and ...  
 ... the ...  
 ...

Dear Mr. & Mrs. Brown  
yourself.

Gratefully J.C. F. ...

1. 5. 1944

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 440. 441. 442. 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559. 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574. 575. 576. 577. 578. 579. 580. 581. 582. 583. 584. 585. 586. 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 805. 806. 807. 808. 809. 810. 811. 812. 813. 814. 815. 816. 817. 818. 819. 820. 821. 822. 823. 824. 825. 826. 827. 828. 829. 830. 831. 832. 833. 834. 835. 836. 837. 838. 839. 840. 84

Last day I have  
 come with me & my wife  
 to see the house. The house  
 is very nice & has some  
 beautiful things. I think  
 it would be worth the money.  
 I am going to buy it in  
 case we want to move here.  
 It is a good location &  
 the price is right. I will  
 go back soon to see it again.

Grand & Row for the row  
x. trigger, which I find  
recorded in my notes —

1893 53. Virginia, 1, 1st. Ash for 2  
ch. Ariz. July. '44.

I have but one specimen  
of the 'toe' leaf, 'toe' leaves  
certainly look like orange, or  
deep yellow.

Am sorry I did not send  
you more of the things we  
found that first season.

There are (that were) some  
at home, I was not sure of  
something not known to us,  
I think, particularly a  
large - 2 ft. Mentzelia, a  
small Boscharbes etc.

Must send you spec. when  
enough found to make a  
good bundle.

Yours & being much

I would do nothing in the world  
without your command for you have  
your reasons for desiring Mr. S. to do  
the work. He only wish it done,  
and it seemed kind in Mr. S. to offer  
to try and determine them, at once  
for which he has ample time. Specimen  
plants, literature and, as we suppose, the  
 requisite ability.

Example of this.

Truly received Dr. Perry's excellent  
monograph on Arctostaphylos. Like it very  
much, very well, but must take exception  
to the merging of A. broadense with  
A. pungens. I have written him that  
it must be distinct. Often in the  
high Sierra, notably around Webster Lake  
on the peaks, I have seen much of  
the smaller monixinate and always hos-  
trale, short limbed, often in company with  
and extending along under the upright  
forms of A. pungens. like Ceanothus prostratus

Just going over to the Acad. for the evening.  
& donate my usual package of plants.  
Very cordially  
L. B. C. C. C.



1205 Franklin St., Richmond, Cal.  
March 23, '94.

My dear Watson,

Your determinations were

duly received

and am astonished at

many times about the determinations

of this kind I ought to be used

to it, but well, from many

standards you that *Chrysomelids* fall

change that the species here

is not distinctive. *Chrysomelids* are so

difficult. Glad to get my puzzling

*Chrysomelids* all straightened out.

It would not doubt mistaken the locality

for 3/94. *Chrysomelids* *caustocarpa*. Thought

it came from *Granada* but it

might be down northward.

Did I give "Ed. Cal." as the locus of

3089 *Chrysomelids*.

3099, *Chrysomelids* *caespitosa* ? No. What

came from *San Joaquin* val. *Chrysomelids* *caespitosa* ?

It would be a nice laid affair, and belonging

northward, *Chrysomelids* Co - as you suspect.

All this time I've delayed sending

you the grapes you desired from our last

season's crop. I've just <sup>at last</sup> packed

season's crop. I've just <sup>at last</sup> packed

1205 Franklin St.

Cambridge, Mass., Nov. 25, '04.

My dear Mr. Gray,

It last me some

a sudden illness, and must send off the plants so far determined and studied leaving most of the garden for future.

Dr. Vasey has not had time to determine the number of packages, if need, he has received it yet, from I.

I have just deposited the box of plants in the freight house, as before, marked "Dr. John Gray, Botanical Garden

Cambridge, Mass., from J. H. Gray, Cambridge, Mass., Nov. 25, '04.

The freight agent thinks the box will reach you in 30 days. It weighs 150 lbs. and the rate at 2. per hundred makes \$9.

I believe the box last season weighed 100 lbs and the charge was \$4.

I believe you have not been paid for that advance in my favor.

Please add that to this \$9, and charge me with \$13. It is paid out of the first mortgage of mine that may come into your hands.

As stated, this distribution is a serious one and includes some 30 packages of

which I enclose a memorandum.

In addition to the bundles to go abroad I have also put in some for Mr. Bussey, and another set to order and which we have marked "Smith".

I did not intend to send these to you and for the purpose I provided two boxes but when I had packed in the plants to go abroad they had wedged together and got so close that abundance of room was left for the other plants - I thought best to put them in.

Enclosed is the freight receipt.

I will write to all the parties and request them to await your convenience about shipping, and to do all their correspondence with me, so as to relieve you from the trouble of keeping accounts.

Under the pressure of a strong invitation we go direct to Ft. Graham, (where I had the temperance conference) in magnificent bloom now, then past along the central Ariz. road stopping off at the most interesting points.

We start in 5 days. Shall hope you & Ann from you to London, and will have occasion, no doubt - to write you often. Our little mother has a few symptoms of cold but remains in fair health. We will my wife join in warmest regards & self & Mr. J. L. M. M.

Memorandum of contents of Box.  
Pacific Coast Plants from H. H. Munson & wife.

{ Brifner 7 packages.  
 Barker 5 "

These to be sent to Drigler as requested.

Enson J. Jackson

Dr. Candolle 7 11

Brit. Museum 4 11

Valley 7  
Lewistown 2.

These & we sent to Dr. [unclear] & [unclear].

Sir F. G. Frankland a small package of minerals  
 30,

To find up here I have sold  
a bundle of books, books, books,  
and a bundle of the books of  
Dr. Cayman and Yuan Yuan,  
The books from the Chinese at,  
The books from Yuan Yuan.

The season opens so finely in vision  
that we hope to find more excellent things of  
which you and Prof. Watson will get very  
reminiscent.  
Good bye.

H. J. L. L. L. L.

and now send me of the species  
affinity. In two or three instances the  
specimens sent to you for Dr. Vasey were  
old, but was collected.

While in package I send a few  
more plates, which please determine  
and the rest will follow after a while.

No. 1111 is of special interest as it  
was found in the Franklin Mts, in the  
valley near <sup>california</sup> <sup>mont.</sup> <sup>the</sup> <sup>river</sup> <sup>near</sup> <sup>the</sup> <sup>river</sup>  
a Proterozoic, and found in the same.

No. 1112 is a fly from the  
same locality. *Memosyrphus tenuis*, B.H.

After packing up all our things in haste  
and putting into boxes, I expect to go to  
you in a week. For distribution abroad  
as before.

Some weeks from today we start for the  
new ground to west of the Colorado in the  
Colorado along roughly west & come to the  
the west end of the park, where looking  
along the N.W. R.R. through the  
valley, during the early morning, going  
down to the river. It will be a fine view.

Write me writing you & Dr. Vasey, and  
best and best regards to all.  
Sincerely,  
H.B. Brown.

74 Hoham, Ariz.  
Apr. 13. '84

Dear Dr. Gray,

Your last postal correcting my labels, has just overtaken us. Am sorry that the faulty labels will be found accompanying nearly all the plants sent you in the big box.

Hereafter I will have labels printed "Collected by", and will correct labels on hand, accordingly.

The season very favorable for botanists, but death on rail-roads. Found the plain here whitened with *Gnemonocallis*, <sup>white</sup> and *Malacothrix platyphylla*, and the *Trichoptilium* *maxim*, <sup>and</sup> *tridens* in the canon nearest the fort.

Winds and weather terrific so exploring is precarious.

P.S. Dr. Vasey writes that he has received the long delayed package of Groffes from Dr. Thurber, and that it is a cursory examination they appear very interesting with several undescribed species, no doubt from the Chiricahua Mts. Now we are in a fair way to have determination before work in herbarium commences next winter.

I enclose a small spec. of Trichopilius to show that the florets are decidely yellow. Will get seeds of Melastoma platyphylla soon, & forward, to help on the history of the species.

I have only been once to the Mt. 23 miles distant. Found Dr. Cooper's plants distributed all the way along, and a large leaved Kolua in the foot-hills.

Mrs. Loomis has painted the Kohaua and the Hernero-callis, while encouraging Mrs. And to do the same.

The Kohau Indians are very interesting on account of their fine countenances and intelligence.

We move on eastward, soon, stopping off near mountains.

I have both been so often prostrated that we are weak and must not undertake adventures that involve too much hardship.

Received Mr. Watson's determination. Hope the big box of plants will duly arrive.

Mrs. L. joins in regards to self. Prof. Watson, & Goodale, & Mrs. Gray.  
Very truly yours, J. D. Loomis







Reach the 22. Air.

1, 22, 54

My dear Dr. Gray

You may remember

that last winter I wrote you much of  
of the queer behavior of one of the  
stems in the hands of J. A. K. & the  
Sutcliffe & the other. I had seen a  
stolon, long and thread like will reach the  
point that eventually become a new plant, & a  
triple the whole and bare tubers.

Well, the <sup>just</sup> has sent a pill box of tubers &  
which has been forwarded to us here.  
I find them very fine little white tubers  
fine growing. So I have  
divide and distribute them.

Will send a dozen to each of the following  
parties: - Sir Joseph Hooker, B. G. A. Barrie & al  
Versailles, Dr. Gray, and Prof. E. L. Buxton at  
old home in Sierra valley. This will, I  
sent, I hope, the top of the precious tubers  
and may lead to good results if as  
me suspect - this form is distinct.

A long letter just at hand of  
I refer to the potato question.  
The regards - as you <sup>do</sup> also, ~~suggest~~ the  
two forms S. Jamesii and S. Hendersonii are  
belonging together, and promises me Prof.  
Henderson's article on the Solanum.

It seems much interest is awakened in  
our native potatoes in the hope that <sup>by</sup> crossing  
with S. tuberosum the latter may be improved.

Mr. Rinehart is glad to receive our rare plants  
and desires all we may get in future.

Though very late for these Solanums to be  
above ground yet I hope they will not

I should like to loan from  
them after harvest, - which by the way,  
should be delayed until late autumn,  
as Mr. Rinehart writes

Very respectfully

J. H. Burrows

Our address.  
M

Flag Staff, Arizona.  
June 29<sup>th</sup> 1884.

My dear Dr Gray,

Thanks for your important letter of June 9<sup>th</sup>! which has just reached us via Oakland and Peach Spring.

We are delighted that you find so many novelties in our first package as I confidently expected. We await a report on the other, smaller one with increased interest.

Also we are glad the potatoes have safely arrived and that we may hear of them in the future.

Also that "the New flora will be sent you about the 4<sup>th</sup> of July."

But what is this you say about wanting to know the localities of the plants sent you. Surely I took

pains to write out my determinations (so far as I had any literature at hand for assistance) suggesting names in some instances then following with a full statement of locality.

I think I put the Gymnopetalum on one paper for you and the rest on another paper for Prof. Watson.

Please look over your letters from me and see if you do not find full notes as stated. Perhaps the letter arrived some days before the flowers and you forgot my notes.

In the notes I declared the No 3141 was undescribed and gave it the name of Minulus Kohavensis, for I thought it a Minulus.

For some of the others I suggested names and it is your encouragement for study if what little perception I have developed should meet with no recognition whatever, as it has formerly. Thanks to you.

I have not my original draught of the notes here but will go soon down to another station where the package of duplicates is left and bring all home

here where we have established our headquarters for the rest of the season.

Then I will copy and send localities again for fear the other sent you was mislaid.

However I can answer some of your questions from memory.

You ask <sup>concerning No. 3141</sup> of "Is the border of the corolla ~~red~~ white or pale and the rest reddish-purple when freshly collected?" Yes. The border is a lighter purple, the rest brownish purple - quite striking.

We are glad that it proves a new genus and our acquiescence in your first suggestion to <sup>dedicate</sup> call it to one of the parties who has done much to promote the publication of Flora Calif. - D.C. Mills.

But we should have been ~~over~~-joyed if you had acceded to my frequent request and honored B.B. Redding with <sup>this</sup> beautiful genus.

And Mr. Redding if alive, would have been pleased with this association, of Reddingia Leemoni, or Reddingia Kohavense.

At any rate was not my specific name of Kohavense quite appropriate?

We discovered it May 6<sup>th</sup> near Waterman's bridge over the Kolavae, and May 7<sup>th</sup> near the mining town of Calico, both in the Co. of San Bernardino, Cal. and near the river.

We are sorry that this long delay has occurred and especially that you could think me derelict in properly supplying you promptly with notes.

But more than all, other botanists are in the field and their determinations may be promptly published - thus beating us all!

Here, the work goes bravely on. I shall have another package for you soon.

We are established here at Elay staff, for the balance of the season, right at the base of the San Francisco Mts. Our camp is at an elevation of about 7,000 ft.

We have several more puzzles in the way of Astragali and Phacelias, for you.

We have been over the whole road between the Colorado and the Rio Grande, and selected the earliest flora.

Miss Leammow is well and heartily at work in painting or prepping plants. She joins me in especial warm regards to yourself, & wife, & Prof. Nelson & Goodale. J. Leammow.

From J. G. Lemmon,

July 14<sup>th</sup> 4

My dear Dr. Gray.

Happening in town today from our head-quarters, 8 miles north. I got your letters of July 6<sup>th</sup> & 8<sup>th</sup> also pamphlet on death of Engelmann & Her.

My heart is filled with joy and gratitude at the decision you have arrived at relative to the new genus.

Please forward at your leisure the generic characters drawn up for it and I will have it published in our Cal. Acad. Trans - if they publish again soon enough. I will write the Curator to-day and learn.

Yes Reddingia Bohaverensis is the proper name that plant should bear. I am glad you feel in accord with me.

I like Dr. Rottrock very much and would like to be the means of having him with a genus next.

And let me assure you the generic  
name is eminently deserved by the life  
labors and benevolence of the late B. B.  
Redding. Every department of Science  
has received great assistance on this coast  
from him and his work is manifest  
at every turn in the Acad. Museum.

He was Fish Commissioner of Cal  
for many years holding the office at the  
time of his <sup>death</sup> and his mantle has descend-  
ed to his son Joseph D. Redding. He has other  
two sons and his wife - all three of his  
family, are all eminent for their intelli-  
gence and their ability and effectiveness  
in advancing knowledge and virtue.

These relatives will bless you for  
your kind part in this honorable ded-  
ication to the lamented dead.

And personally, you do not know  
how much good this will do me in giv-  
ing encouragement, for I studied those  
plants carefully - and certainly determined  
much considering I was in its field  
away from barbaria and literature.



2.

But your letters puzzle me more and more about the notes sent you in detail with the first large package.

You must have received <sup>in</sup> two sheets of notes (and suggested names) before this letter, which you now return to me.

I have here half a dozen allusions to remarks of mine in ~~the~~ your first letter announcing the new genus &c.

So it must be <sup>you</sup> have had it in hand.

Perhaps you passed the letter over to Prof. Watson, — since one of the sheets contained plants in his line.

However I have now my duplicates in hand and will briefly repeat the numbers, dates and stations as I first stated them. (Next Sheet.)

Flagstaff, Ariz., Aug 1<sup>st</sup> '84.

My dear Dr. Gray,

I received yours of July 22 & 23, with the char. of Reddingia yesterday and to-day I send off a full description to Coulter's Gazette, also a popular one to the Pacific Rural accompanied by a painting of the plant which Mr. Lemmon has executed. Perhaps it may be engraved to illustrate the article, as Mr. R. had many warm personal friends in D. T., — more so than any millionaire that has left the coast.

We are rejoiced to learn that the new Synop. of Compositae may be sent directly here. Yes, Please address it to us at Flagstaff.

also any other communications until the middle of Nov. will find us from this point.

I have requested that a marked copy of the Pacific Rural be sent to

Please put your autograph with presentation in the volume.

certain of our correspondents - among them yourself.

The Botanical Gazette, you see of course, regularly,

Perhaps the same Rural will contain a short sketch of our first view of cliff dwellings.

I have written a long article concerning the natural resources of this great plateau. It has gone East in charge of a friend. Don't know when or where it will appear, - if at all.

No mid-summer rains yet and the season far advanced and drying up the grass and flowers. We fear the good harvest will be postponed for this season.

Mrs Lammom is very busy with drying plants and painting. She joins in warm regards.

Yours Truly

J. H. Lammom.

Flagstaff, Arizona,

Aug 8 th '84.

My dear Dr Gray,

I trembled at the sight of your last letter fearing that something had happened to my poor Reddingia. Alas, the contents revealed how cruelly it had been "smashed."

There was deep mourning in our camp that night. Too bad! For Mr Redding richly deserved such a honor in his life-time — a plant of his adopted state — and I as his chief word and botanical friend owed it to his memory.

Well, as it was bound to be lost we are glad ~~the~~ disaster came before publishing — technically.

I at once despatched letters to <sup>Gazette</sup> Coulter, and to Dewey of the Pacific Rural retracting the new genus. The latter journal was to publish an extended popular description with an illustration from Mrs. Commons's painting of the plant.

Two local papers had solicited botanical items as often as possible and I had furnished them with

After Dr. ~~Wells~~  
 You may  
 states of the Reddingia soon after your announcement.  
 One of them - the shortest - I enclose, & ask  
 you if this much of publication will make it  
 necessary to retain the name as a synonym, and so  
 prevent a true Reddingia later?

I have written Mrs. Burran sending my duplicate  
specimen and requesting an exchange for her Ab. pictus.

We are grateful for your expressed sympathy  
for you knew how we had doted on the new genus.  
I fear we can never find such a good thing again  
but nothing shall discourage our efforts at systematic  
exploration such as we are now prosecuting,

We are pleased to learn that the "Flora Part 2" is on its way. Please remember to direct any thing for us during the remainder of the season to Flagstaff, Arizona.

Other botanists are dropping off the train here  
and there snatching a few things hurriedly.  
None seem to think it worth while to make  
thorough work or fine <sup>specimens</sup> ~~collections~~. Ours will be of  
the very best. of this you can always assure your  
correspondents.

Sorrowfully,

J. H. Lemmon.  
 & wife.

Flagstaff, Ariz. Aug 22, '84

My dear Dr. Gray

Yours of the 15<sup>th</sup> at hand  
with publication enclosed. Many thanks.

The "Flora" has not yet arrived to our  
great surprise, since you must have despatched  
it long enough ago.

Do not trouble yourself about it. It  
may come in any day but we cannot re-  
port for two weeks - being just off this morning  
for the Grand Cañon at its upper end, about  
65 miles away.

<sup>of the San Francisco Mts., over 12,000 ft alt.</sup>  
We ascended Mt. Agapix, last week, found  
some fine things new to us, (Colorado flora,)  
and enjoyed a thunder storm beneath us.

I enclose a little Dereis from the summit.  
In volcanic scoria, all the plants low and  
depressed, some glaucous, others not, mostly more  
than one headed, collected Aug 15, '84.

Hurriedly

J. S. Keimmon.

Flagstaff. Ariz., Aug 28<sup>th</sup> '84.

My dear Dr. Gray.

We shortened our trip to the Grand Cañon, coming home last evening to find, O joy! the New Synoptical Flora, awaiting us.

To the neglect of all other mail matter I have hastily scanned its rich pages in order to give you a few notes as we go to town this morning.

The central fact of most interest to us is the treatment you give ~~to~~ <sup>it</sup> in its place to Plummera floribunda.

It is most satisfactory, for it is full and correct. The reader must now better understand our relations, our labors and our successes.

We are both profoundly grateful to you dear Dr. for the honorable mention made and at such unusual length.

Following are a few notes concerning certain plants in their order.

Perlandiera lyrata var. macrophylla deserves to be looked after, certainly where we found this form it was very striking.

Gymnolomia triloba "root not seen"  
Did we not send you from Huachuca in the year following ('82.) full spec. with large thick roots? We should have either done so or told you of them.

Chaenactis suffrutescens I surely collected it on a sand wash of the upper Sacramento near Shasta, <sup>in July '81.</sup> Found the same spot the season following but later and the shrubs were in full fruit.

Tagetes Gemmoni. I first scantily collected this in the Santa Catalina Mts. <sup>we did</sup> Aug 80. also, in the same place in '83. but its headquarters seem to be in the Huachuca Mts. (Sep '82.)

Aidens Gemmoni. I note this with great satisfaction. for it is certainly distinct.

Strickroseria platyphylla, I am much pleased to find that you have separated this from Kolacottia  
V.C. &c.

Now we have the long felt want supplied - the Compositae all correctly classified and completed to date.

We are thankful that our veteran botanist has been enabled to complete in one day this herculean task.

To comprehend and keep a clear view of this immense order - one eighth of our flora - must be impossible to any other mind on the continent!

Also we have received (forwarded from Oak-land.) your memoirs of Dr. Engelmann. It warms our hearts to read of his virtues and encourages us to contemplate his achievements.

Very cordially Yours.

J. G. Gemmon.



at the end of the season. Many have been obtaining it & I interest you. We have just been obtaining it & about a Crater Lake - Rain of Crater about 2 miles in Cir. 1/2 mile. Height of Crater about 300 ft. high. Crater with Eucalyptus - grassy - flowers - long pine & poplar trees on all sides. With full regard to Mrs. Gray believe me Yours truly S. A. P. Deane m. n.

Dear Dr. Gray:  
It would violate the mind & heart - did I not give, at least, a brief expression to them at this time in reference to that exact and complete Vol. of Bot. just before us. The 1st thought is the painstaking labor that you have taken from many months that, perhaps at your time of life, should be more interlarded with rest and unbending of intellectual forces to lengthen the all too short life, of so much value. Well the delightful & self imposed work is done, & if a word of congratulation, from <sup>my poor</sup> Vocabulary could cheer or add to your wearied spirits. I would more than offer. In reference to the puzzling arrangement & bother of two Lemmons in the field, it seems that you have managed the dilemma ingeniously. In the neat & just explanation accompanying my precious genus. For which please accept my personal thanks. We are very busy in the field as usual. - and

The Commissioners for the two territories urge us to increase our display and take it down to N. E. fair.

We go over to San Francisco to-day to see if the Cal? Commissioner also, would like to be represented.

Sometimes I think it would be better to stay at home and study this winter. But then we have need of the broadening and educating influence of such a trip, where we may see large floral displays and meet many botanists.

Will make up a package of puzzles as soon as possible for you.

Mrs G. busy as a bee. Feels quite pleased with her prize for flower painting. Best regards of both to you all.  
Sincerely Yours, - J. G. Penman.

Oakland, Cal., Oct. 18, 84.

Dear Dr. Gray

Just in from our season's explorations we find your favor of the 26<sup>th</sup> of Sept! waiting, not forwarded!

Island you were benefitted by a month's vacation.

Hope straght continued.

The death of Engelmann & Beer, Bentham & others set our fears in action but our dear Dr. Gray is in danger of falling.

So try to shift some of your usual burdens off upon younger shoulders, and so bless us by your supervising counsel for years yet.

So those rich Santa Catalina Mts. yield another new genus - Rothrockia,

Good. We collected more and better species of it last Aug. but as you had named it Boulina unigari I did not forward ~~these~~ new spec<sup>s</sup> to you but distributed as above. Will now rectify.

Finally, I saved some good Robins <sup>for ourselves</sup>, so can verify when your description appears.

Collected also of the new Gadmeostoma Arizonicum but of course distributed it as Gonolobus reticulatus.

I do not wonder that mistakes occur in so difficult a family as the milk-weeds.

I'm glad you removed the doubt of my credibility in regard to the habitat of Chanactis suffrutescens,

I fear we will be too late to get you any thing more for "Contributions" at this printing for it will be some time ere I can get at our collections, still in 6 great boxes of dozens of well packed bundles.

We closed up the season by taking 300 specimens of grasses, sedges and ferns mounting <sup>them</sup> on large card boards and exhibiting <sup>them</sup> at the fair for Arizona and New Mexico held at Albuquerque last week.

Secured to take very well, & first premiums awarded us.

Harbin, 205 Franklin St.,  
Oakland Cal., Nov. 21, '84.

My dear Dr. Gray,

Some seeds have just arrived (thought to be long since lost) of the Hebe scallia undulata Gray and I despatch a part of them at once to you, remembering that you remarked last spring that seeds ought to be collected and distributed.

We are just on the eve of starting for New Orleans, with lots of things ready mounted or ready painted for the exhibition.

The S. P. R. R. take us & our collection down and prepare the articles <sup>with</sup> in glass cases &c, while the state pays our expenses.

So we get a chance to see the ~~great~~ promised great floral display.

Hope to meet a great many botanists there - including the doctors from old Harvard.

Hastily,

As ever,

J. L. Emerson.

I send some also to Kew.

Trichostema, etc.

P. D.

I will answer <sup>from memory</sup> a few more of your questions for fear that I cannot get hold of my notes for a few days.

3129 Senecio Mohavensis, N. Sp. is annual as I stated.

3127 Tricollitia occidentalis is perennial, from a deep-seated root that only sends up stems in very wet seasons.

X 4152 Oxybaphus — Does seem to me cannot be any form of nictaginus.

4150 Phacelia cerulea Greene, has pale blue or purple fls. (if we remember right.)

3117 Astragalus Mohavensis n. sp. I think grows on the Mohave.

3118 Astragalus acutirostris Peach Spring of Ariz. (If I recollect right.)

3131 } Forms of Nemastylis which I must still  
3132 } think specifically different in form of stem, in fls, leaves etc.

The two stam are striking forms, I believe both from Colies. Mohave val. One of them

I feared would militate against the genus:  
Gemmunoia, That one (3138) is some-  
what depressed so the name you suggest  
of G. depressa would be appropriate.



New Orleans Dec. 28 1884  
422 1/2 Saint Charles Ave.

My dear Watson,

Thanks for your list of determinations which arrived in time for our Christmas dinner.

We are glad you found so many good things in our late Coll.

As we look over the list we discover that the most difficult plants to find were not in any case new ones; such for instance as those from the summit of Mt. Agassiz up which we toiled twice. So also of the summit of Mt. Williams. Then again not a plant of desert region about Mt. Mohave is new, nor Peach spring where two busy months were spent. But two days on the Mohave river yielded 8 species, the

Grew on the borders of a crater lake. Disimulans was omitted, I enclose. It seems

rest coming <sup>mostly</sup> from the great forest  
about San Francisco peaks.

Two remarkable exceptions, The  
Gimicifuga grows in a north-west ravine  
of Bill Williams peak, only a few feet above  
the plain, while the beautiful Talinum  
comes from the immediate suburbs of  
the Indian village of Laguna, or as  
we heard it most frequently called Tomack.  
This plant is quite showy & beautiful, pink  
flower like a Portulacca and an inch broad,

Mrs Gemma returns her thanks  
for the lovely orange Brodiaea and 2 for  
the yellow Ipæsia. There is not much  
of the latter, only a few roots about an  
old rock in Oak creek. But the other  
new Ipæsia primatifida is abundant, I  
sent you seeds & hope that it may be  
grown.

Have written to Dr. Gray expressing our  
pleasure at the prospect of seeing him down here  
with Mrs. Gray. May we not see you also?

Better take a vacation by and bye when the  
exhibition is at its best. We want some  
hints from you both in regard to future  
field of work. We have no knowledge  
of other's labors this season, as their suc-  
cesses. Please tell me where Pringle and  
Parish were exploring and the number of new  
species for each. Are there any more new  
ferns reported? &c.

Mrs G. joins in warmest regards.

Yours cordially,

J. G. Gemma.



Dec. 21, 1891.  
Dec. 24, '91.

Dear Dr. Gray.

A telegram-

sent to Oakland last evening  
brought a reply this morning that  
our little mother was very low,  
might live a few days only.

As we hasten on homeward, as fast  
as possible, via N. Y. I shall try  
on paper but fear can get well over  
the east division of the line - the  
Central Pacific, only.

We are in hopes to reach home  
in time to help mother to live. She  
is so much attached to "Annabell", that  
her presence and nursing might avail  
much. We are sorry to leave & leave  
out the N. Y. botanists until we can  
come again. With warmest regards to  
yourself, Alice & our Prof. Watson,  
I remain ever yours, J. D. C. Munson.

suffered no lack of attentions and  
comfort during our prolonged absence.

Also my two brothers & sister  
from Sierra Valley come down to  
aid in the duties of the sick room.

As one of the mother of our  
old friends drop in it is gratifying  
to learn that all have been so kind  
and helpful to our dear little  
mother during her protracted and  
painful illness, and that she  
was so cheerful and grateful.

I enclose an article written  
for the Pacific Rural by a lady  
who as she says, had the privilege  
of watching by mother's side several  
nights.

We are still busy clearing  
house, and preparing for winter.

Have been out but twice. Have  
not yet reported our work at the fair.

A "reception" is planning for us  
next week. With grateful thanks  
to yourself & Mrs. Gray, in which <sup>the</sup> ~~the~~ joins  
Yours ever, <sup>John</sup> ~~John~~ <sup>common</sup>.

1205, Franklin St.,  
Oakland, Cal.

Nov. 14, '85.

My dear Dr. Gray,

A thousand  
thanks for your late letter  
conveying the sympathy of your-  
self and Mrs. Gray.

Have we then, omitted you in  
the long list of those we wrote  
to announcing our great loss?

Your kindness is all the more  
pronounced; - we are duly grateful.

Yes. Our dear little mother  
was transferred to the other life  
four days before we arrived, i.e.  
on the 7<sup>th</sup> of Oct.

Many friends have called  
to condole with us and from  
all we learn that our mother  
retained her faculties perfectly to  
the last and engaged all

P.S.

About the Phacelia at in Laramie and west of the Grand Canon, the late exciting scenes had made me too stupid to recall my knowledge of them when with you. Now I have the data.

We went from Ft. Colville (in the St. W. portion of Arizona & reach Spring on the 1<sup>st</sup> of May. Went down in the canon soon after. Collected largely of the 'large beautiful campulata' Phacelia and looking up the gorges in Synope, of Bonaparte concluded it was P. pulchella Coll. by Dr. Parry in Southern Utah several years ago.

The plants were very abundant lying on rocks at the edge of the cañon and sometimes spreading over the adjoining disintegrating soil. Often the quantity would give the appearance of a purple carpet. I have not reached the work of unpacking and studying plants yet. Shall be glad to get the "supplements" you promise the botanical world. J.H.P.

hearts by her kind, unselfish conduct. Her whole life has been one of self-denial and labor for the good of others.

At the last her concern for us was intense and unswerving. She advised and urged us to go through the eastern cities and would not have us know of her real condition lest we should hurry home.

Had a gratification it would have been to her to have seen all the objects we have brought from the exhibition and the East and to hear our recitals. Now the unpacking of our trunks gives pang & pain instead, and we silently lay away articles that have lost their value forever.

She has become so well known and loved in this city that she

2. - - - - -

I have to indicate very briefly and marked mainly what may be found in the U.S. west of the Rock. Mts. including Alaska. This can be in a distinct geographical region, usually called the Pacific Slope.

The only trouble is toward the south, with the Mexican plants.

For instance *Sax. alpinus* ad-  
ventitious & *A. chrysocoma* come into  
Chihuahua, or Arizona?

How many *Botrychium* are in  
this Pac. region? Any new  
*Gleichenias*? or *Polypodites*?

I shall be very thankful for any  
information in aid of my project.

There is no one joins me in  
warmest regards to yourself and to  
your family, also with best wishes  
for your success in business.

Yours sincerely  
L. L. Lemmon.



Lemmon Herbarium  
1205 Franklin St. Oakland,  
Calif., 28, '15.

Dear dear friend Savinport,

Did we

say anything in your presence of  
the illness of our dear little mother?

While we were at the East on-  
going the acquaintance of friends  
and the study of plants, we  
were prostrated by fever, but so  
great was her solicitude for our  
welfare and her strength of self-  
denial that she did not let  
us know her condition nor let  
others know our address.

At last a friend telegraphed

"You matter... very low. I am  
immediately... hastened  
home, but too late! Her vessel  
had been brought up from the  
land and deposited in the cemetery  
at Diva valley where you  
must see it and to me, some  
days before our arrival.

It is a great work to tell  
this to, and myself you will not  
think it 83 years old nor slight,  
a tentative, considerable and won-  
derful in its character.

I tell you all this because we  
have been in your home and also we  
have read your tribute to John Will-  
is, and so we know how sympathetic  
and warm towards you we, and that  
you will sympathize with us for the  
work of our life.

"We must... to...  
... we are...  
... after so long, since, that we  
... just arrived at the...  
... of the...  
... you saw it. How rich it is!

(Some of the... of...  
the... How can we  
... for you for...?

... I present it  
... and further on I wish  
it ask you further....

I am going to try to publish a  
... edition of my "Pacific  
...", this winter and of  
course I wish to make it as  
full and correct as possible.

How as you know I have made  
of all the collections made on  
this coast you are in the way  
of acquiring me with the

Our mother's "Memorial" has re-  
quired much more time and care in  
its preparation (from want of experience)  
than expected. Comes out to-morrow.  
Will send a copy.

At certain times I have  
been beset by a conception of a meth-  
od of presenting a knowledge of  
ferns in a manner that will  
aid the mind to conceive and  
the memory to retain all the de-  
scriptions, classifications, compari-  
sons &c. they naturally fall into  
sets of three or of some multiple  
of three, as 6, 9, 12, 15, 24, 25, &c.

Had to write it out - will make  
quite a volume - but cannot pub-  
lish this spring I fear. I think  
I ought to submit it to you  
or to special pteridologists, before publishing.

Have found time for little else  
this winter. A few articles for  
the Rural, or San Francisco.

The citizens gave us a hearing the  
other evening about our efforts  
at New Orleans. A Committee at  
work arranging for a second report  
to a larger audience.

Weather very stormy. Much dam-  
age to buildings, roads, bridges, &  
cultivated grounds.

Mrs. L. busy with other friends  
but joins in warmest regards to  
yourself, Mrs. Gray, & Prof. Watson.

Address as before. Letters will  
follow. Yours cordially J. L. Emmon.

1205 Franklin St.

Oakland, Jan 24, '86.

Dear Dr. Gray,

In consternation  
at our singular bad fortune  
I sit down to drop you a  
hurried line. I'm lured  
& moved again!

The premises sold out  
yesterday to a R. R. Co. for  
a new depot. That vacate  
in a month. So thought of  
it until recently, &c.

I have worked all winter  
cleaning house, repairing dam-  
ages, making improvements  
for permanent head-quarters  
only last week getting down  
to the opening of packages of  
last collection of plants and  
beginning to put up sets  
& go to you. Alas... alas!

Because all this time we have been thus occupied as with last filial duties we have had little to communicate to you.

To our great surprise Mr. Greene appeared at the door of the <sup>reception</sup> barbarium one morning. Of course we ushered him in and gave him cordial welcome. He soon turned all attention to our plants and began selecting such as he wished. He insisted upon paying for them despite our protestations that we wished the Acad. to have a full set of all our rare things as usual. That being the way we keep up our dues to the institution.

He called again a few days after and selected more

plants especially in the order (Borraginaceae, taking in all some 50 specimens, for \$8.

to reference to the unpleasant rencontre in the old Acad. three years ago was made and everything seemed amicable between us.

A few days after notification came to each of us that we were in arrears for a years dues - in all \$24!

Dr. Parry writes of rough treatment at the hands of Mrs. Curran and so it seems that something is greatly wrong with us collectors or something exacting and peculiar about the Academicians. Too bad.

I'm sure much more could be done with harmony and united, honest work. We are told the last election was a stormy one, Dr. Harkness aspiring to the presidency. We were not able to attend.

forms in certain Orders  
we have a perfect system  
by 3<sup>rd</sup> or multiples of 3.

The separation of its  
anomalous genus Crocota  
from tribe Aspideae, and  
erecting it into a distinct  
tribe is my own ven-  
ture and I'll take the  
consequences. There are  
to my mind, sufficient rea-  
sons for the separation.

Of course this is only  
the first draft. I should  
hope it might be much  
improved by your pencil  
as well as my own, more  
mature deliberation.

Take it all in all there  
are several important departures -  
I say! Will they hold?

Best wishes in all good  
wishes for your 25th year  
and for 20 more of the same,  
and warmest regards for your good  
wife. Also Mrs. Watson & Goddard  
Yours &c. J. D. D.



Oakland, Cal.

1205 Franklin St.

Feb. 15, 1886,

My dear Dr.

We are very glad  
to hear from you again, &  
to know that you have  
usual good health, as does  
the same for this day.

Our moving interrupts  
all scientific work for  
this month. Are still  
looking for another house  
Expect to decide upon a  
very good location to day.



Thank you Dr. for taking  
so much interest in my  
pet "Griffe Method" as to  
inquire about it.

I send it you (as a  
small roll of M.S.) to day.

Please be so good as to look  
it over drawing your pen-  
cil through errors &c,  
and let me thus have  
the benefit of your  
judgment. then next  
winter if it is deemed  
worthy, I'll publish.

The theory has a strong  
fascination for me, and  
by the device of allow-  
ing for advances and  
extinct but known

1204 Franklin St.,

Oakland, Cal.

Feb. 10, 1880.

My dear Mr. May,

My thanks

are very hearty for your  
kind favour - and others of  
despatch to me, and for  
your help for the same work  
of value for our little nation.  
I am sure - except my  
gratitude to you all for letting  
my name, the Arizona Prairie,  
stand on the record.

But I hasten to give you  
information concerning the specimens  
sent. They differ much  
in habits and condition. The  
first birds were sent  
from the Point in May 1878  
from the same place (25-6)  
1880, and spent exclusively on  
dry hills generally among rocks.

& often

on ground, are bulb-bearing and  
glandular (a nearly constant character),  
and the leaves are most of them  
linear-lanceolate, a digitately pinnate, etc.  
The last specimen sent  
from Arizona in 1894, grown  
exclusively in (so far as we  
were able to discover) a wet  
meadow adjoining, almost sur-  
rounding the Mormon stock-  
of "Fort Huerfano," which was  
our only source for I mention of  
this species. The meadow  
being one of the many large  
rich ones lying around the  
west base of the Agassiz Peak  
of the San Francisco Mts.  
This rock-loving form  
is always robust, very bran-  
ched with thick, usually  
undivided cordate lvs, &c.

Now which is to be taken  
for the typical Arizonian? the  
hemispherical or palmate form?  
The latter, I think, was the  
type of the first form.

It is not as if  
 the other seems a well marked  
 variety, say the palest.

We have been very much  
 interested in looking over the  
 collection of Collected Birds  
 lately, with the changes  
 and improvements. The types  
 are all well preserved.

One of the in the  
 collection, came out of  
 the cage with some of  
 the other species standing.  
 when caught in the  
 process.

Now, I have not been  
 able to study and observe  
 for a year past. now can  
 I do any work with the  
 winter.

We have made some  
 progress. Just what it is of.

and you are for it, in which  
 please excuse.

Until a few weeks  
 ago I was in better health  
 than now this winter. Now  
 constantly suffered with  
 lame back.

Wrote you the other  
 day saying things were  
 now about to change other  
 names for our barbarians.

I have restricted action  
 and arranged to pack up  
 our goods, barbarians and  
 all, until winter and to  
 pay rent-paying.

Expect to go down to  
 San Luis Obispo Co. in  
 April or a little later to  
 range over the fine re-  
 gion a few weeks, with  
 certain enthusiastic friends  
 named Steele, who are ma-  
 king all preparations for  
 coming out and exploring.

Read with great pleasure  
Mr. Prof. Sargent's article  
coming out by the action  
of your little boy.

What a record of real  
hard work. When we  
think of it and try  
to comprehend the long  
life filled with so much  
of work we are often  
at the thought that every day  
we slip along, and still do  
work in the old way of  
half a century ago!

So we will do our  
work for the Reminiscence  
and suggest something in  
the near about it.

Could do it. Too busy  
trying to get out side of  
last American work, and  
forget a great amount.  
It was a very complete  
and a very thing.

I find there is some so-  
 called matter that is bound  
 to draw much of our at-  
 tention, — the meeting of  
 the Young Men and  
 Ladies Relief Corps. Both  
 organizations have given  
 no much attention and  
 have been much  
 from us.

Mr. E. goes up to  
 Sacramento to-morrow for  
 two days attending a state  
 assembly. From which my  
 daughter returns next.

The boys are to present  
 their collection records to  
 you and Mrs. Gray.

Can this arrive you  
 in it have received and read  
 my "Little Method with Children"  
 for <sup>the children</sup> ~~the children~~ I look with great  
 anxiety — also for the new  
 double volume of Gospel studies  
 you kindly propose to present me.

Surely it is simply  
 wonderful the whole world  
 to see you for toil you  
 people, I work up  
 all the same, and the  
 original character of all  
 the rest - and small as  
 several of the most dif-  
 ficult elements now to  
 be seen in the first course  
 on my long long road.  
 - simply astounding.

May you long live to work  
 for man as before, and  
 with all the world  
 with appreciate to great life  
 work, if one of this coast  
 have helped you as little  
 as I could you as well.

Again thank you for  
 all your disinterested  
 I am faithfully  
 cordially yours W. H. Johnson



put as I thought they  
were included as varieties  
of *danica* species. I, like  
Bridge and others, did not  
send to you and so have  
lost many credits.

Will send fl. & seeds  
for you to rest our rooms,  
this week. Very love to  
pick up and move me to some  
rest this summer. Had  
decided.

At present the season was  
very favorable to early  
plants. Tourists appearing with  
bunches full of flowers, make  
us doubly anxious to be off.

Letters will follow, so  
please write as usual.

For the summer (looking over  
the plants), materials in the  
next room). Please in and, about  
over to "Dr. Dr. Dr. & his wife"  
and direct me to include her  
most regards with mine to  
you with the end of Prof. Eaton.

Cordially Yours  
J. H. Eaton

1005 Tenth St. N.W.,  
Washington, D.C., April 11, '86.

My dear Dr. Eaton,

You are all  
most home with me, and I  
to for distinction. I wish  
to narrow. It is a hard and  
difficult, for while you are  
the carousal. I thought to ex-  
amine all and rectify mis-  
takes, change names & ac-  
cord with latest findings, etc.

Now as we are about to  
pack the plants for shipment  
abroad into a box and for-  
ward to you, as heretofore, it  
occurs to me that I have  
not asked your consent to  
do so. I fear that I  
have entirely forgotten to ask  
you if you will again favor  
me - as usual.

Too late now, I will  
send on in box & you ad-  
dress as freight, and box.

you to receive your trifles.

The parties among the  
plants are Dr. C. White, (as  
soon as possible, for circulation  
(you Brit. Soc. ...)) and a  
shrub for the ...

I hope the forwarding will  
not trouble you much, and  
that you will not fail to  
charge me with expenses.

I have written to all the par-  
ties, telling them that I send  
the packages to you and di-  
recting them to remit to me,  
and not trouble you with  
paying accounts.

Your determination of last  
Sunday arrived duly, but  
no word yet from Prof. Watson.

Another package of papers  
which reach you soon will  
notes and queries. I find  
quite a number of that  
collection were unsent.

Department of Agriculture,

Washington, D. C.,  
San Luis Obispo, Cal., May 25, 1888.

My dear Prof. Watson,

Your determination of  
part of the plants sent to Harvard  
finds us here where we botanize for  
a few weeks.

It seems that several of the plants  
prove interesting, especially the Stanleya  
the Rides, and the Erigeron.

But others are distinct too I must  
still believe. The little Thysanocarpus  
was still mixed - intertwined - with  
T. pusillus in my papers when I  
detected some dozen plants, send-  
ing you the largest. The fruit on  
all, and the <sup>arrangement of the</sup> leaves are similar to  
those on spec. sent.

I must have lost a letter of  
yours designed for me long ago  
when you received the first lot of

plants, Dr. Gray sent promptly  
his determinations and alluded to yours  
as following soon, so I waited  
without concern.

The package contained especially  
two interesting *Kentzias*, from the  
rim of an extinct volcano.

You will see what plants they were  
by reference to my notes sent at the  
time to Dr. Gray & yourself, I have  
no list with me of course, and  
cannot see the duplicates again until  
we set up the herbarium anew.

The flora very fine and abundant  
here this season. Mrs L. painting Calo-  
chartis when able; is often too ill.

I shall soon write to Dr. Cerd. and  
acquaint him with the honor of <sup>the</sup> ~~a~~ new  
and pretty *Eriogonum Cerdii*. Many thanks  
for acceding to my request. I felt-  
sure that it was very local and un-  
described. Mrs Gernmon joins  
in best regards to yourself, Dr. Gray &  
Mrs L. Truly Yours, J. H. Gernmon.

San Luis Obispo, Cal., June 1, 86.

Dear Professor Watson,

By this mail I send spec. of the *Calochortus* we showed you a picture of when at its herbarium. Have you had any specimens sent you before? If not with descriptions, please give me credit (if worthy of it,) for enclosed description and on account of there being so many collectors of it, I propose a name derived from the town or county where it is solely found, — San Luis Obispo.

How would it do to call it *C. Obispoensis*, or some such term; or *C. biloba*? I have much larger bulb-bearing spec., under press, and, later, will send ripe capsules, if desired.

Mrs. L. painting & carefully, a large plant, and I think doing it very well.

Off on a camping trip now, but will have the mail follow.

Yours very truly,

J. S. L. C. Common.

Department of Agriculture,

Washington, D. C.,  
Don Luis Obispo, Cal. June 1, 1886.

My dear Dr. Gray

Many thanks for the  
two copies of "Contributions" — the second  
arriving to-day. Now we have the  
tough family of Buttercups carefully  
revised and the knotty points all settled.

Is it possible that all along I have  
been sending off a form of R. alismae -  
folius for R. Gummowii? Shall have  
to revisit original locality this summer.

Am greatly pleased with the ap-  
pearance of R. Arizonicus and its two  
varieties standing out so distinctly  
among the throng. Other forms  
also, take rank as species or well  
marked varieties. Good.

Further on among the rich col-  
lections of those too tireless explorers  
Palmer & Pringle I notice with a

pardonable pang I hope, that my darling little *Stevia amabilis* is gone! becomes merged with *S. luxiflora*. I was prepared for this by a remark that you made at the time of accepting it that it was "too near a certain other species."

We have been so much of the time ill and troubled with neuralgia that but little has been done in exploring. We are ready, though, for a regular camping trip soon, with our good friends Mr. & Mrs. E. M. Steele with whom we are guests and who are not only very wealthy but very appreciative persons. They have been trying for four years to get us down here, and now make it very pleasant to make it headquarters for the summer.

Mrs. L., when able to sit up is diligently at work upon the lovely forms of *Calochortis* about here.

I have already found the new one, a finding of which by Miss

Waters was shown you when we were in your herbarium. I have sent on the smallest specimens to-day to Mr. Nelson, suggesting a name. If desired can send larger ones later, after they get-cured.

As you have advised us, dear Dr., we are quite ready to take up any other business that we can do, especially if it is in any way connected with botany. So when a letter came from the new Chief of the Forestry Division, of the Ag. Dept. — Hon B. E. Fernow — asking if I would undertake to study and report upon certain timber trees of the Pacific Slope, I at once consented. He sent on a Commission with instructions and also stated that he could not properly recompense me for the labor required.

He offers only \$200, for an exhaustive study that will require my best energies and much material expense during the whole summer, — for I have no free pass now on the C. P. R. P. & Connections as formerly.

Now I have planned to elicit the most easily acquired information will be seen by glancing at a "Circular" which I enclose.

Of course I do not expect many or very full responses, but must rely upon personal examinations & inquiries,

I hope to make such a report as will secure similar work with better pay for future years. Please aid me by your always wise suggestions, if any should occur to you.

Mrs G. joins in warmest regards to yourself, Mrs Gray, Prof, Nelson & Goodale, and Dr. Farlow.

Very truly yours,

J. C. Bernier,

P.S. For some days I have been watching a curious little plant growing on the adobe side a dry ravine. We pick up one this morning on the way to the office and after you I have put it in. Such a curious disposition of the seeds, each on a sort of the involucre, and the lobed central flower. Have not examined with a glass. Will make specimens.



San Luis Obispo,

June 20. '88,

My dear Watson,

Thank  
you very kindly for the  
"Contributions," in which  
is published, (partially)  
your *Arceuthobium* Guatemala  
plants and the plants  
of Palmer; also others  
of the West.

Glad that the new  
*Eriogonum Cordii* reached  
you in time.

Your favor finds us  
resting after a short but  
tiresome excursion.

Am now hurrying  
off a preliminary report

to Com. Sherman with  
reference to our pitch  
pines Pinus ponderosa and  
P. jeffreyi.

Must return northward  
soon and pursue fur-  
ther personal investiga-  
tion for a better report,  
next autumn.

By this mail I  
send larger specimens  
of the Colochoortus Abisporis

Have found it in abund-  
ance in several places.

Mrs L. has secured a  
fine painting of it, also  
of the C. clavatus which  
is magnificent this season.

I be join me in warm  
regards for yourself & <sup>family</sup> the  
good Dr. Gray & wife

Very truly yours,

J. S. S. Common.

San Luis Obispo, Cal.,

Nov. 10, 1886.

My dear Dr. Gray,

Many thanks for  
the late publications, - Dr. Parry's  
Chorizanthe &c.

We spent most of the summer  
northward, at Oakland and in  
the Sierra about Sierra valley,  
Lake Tahoe &c. collecting and  
studying. I have become en-  
grossed in the Conifers again,  
Their study captivate me,  
Making good specimens of all  
we meet.

Returned here two weeks ago  
bringing our sleeves with us, to  
study and report upon the  
Pacific pines for the Ag.  
Dept.

I have remembered your advice dear Dr. and have not incurred too much expense, knowing how little the Govt. pays for such work.

I have attended to other things as well as the pines,

I send you by this mail a package of bulbs, seeds, &c, of rare things including my new *Calochortus Albispensis*,

Perhaps it may grow in your Conservatory,

The *Eragrostis Lemmonii* grows finely here, making a head 6 feet across, and yielding a thousand flowers.

Mrs. L. very busy. Both often sick, Neuralgia &c,

Cordially Yours.

J. S. Lemmon.

U. S. Department of Agriculture,

DIVISION OF FORESTRY,

San Luis Obispo, Cal.,  
~~Washington, D. C.,~~ Dec. 5, 1886.

My dear Dr. Gray,

Returning here from a land-hunting excursion we find your card of inquiry concerning Inoda reticulata.

Fortunately I have a few of the late "Proceedings," here and referring to page 266 of XVII. I find it marked as collected in the Santa Catalina in May of '81,

We are trying to take the benefit of the rush for lands here and secure a little where it may be of value in its future. Found a quarter section last week on the Gariso plains but it is in a high tree-less and water-less region and we hesitate about locating.

Go tomorrow in another direction, 50 miles to look at another lot. Travel in a camp-wagon, and <sup>sleep</sup> in a tent at night,

With regards to all,

J. S. Lemmon.

of work. Then bought a team and wagon, and lived 40 acres fenced with 2 miles of barbed wire, and plowing 12 of them for crops, all hired work.

As the season advanced the heat became intense and three weeks ago we were driven away (Mercury at 106°) to a big oak 8 miles from home, to which we escaped but not soon enough to prevent Mrs L. from being prostrated. She has lain almost helpless in the tent for two weeks. Better now and resolved to triumph over all.

We go up for her health to Oakland in a few days - having permission from the Grand Register to be absent three weeks.

We "prove up" & get our patent in about 6 weeks. Mean to keep this place for winter quarters, while establishing ourselves again in Oakland for summer seasons.

lot of Dana. It had  
waiters, long for  
baptism!  
Mrs. Le joins  
in warmest re-  
gards to your  
& family - and  
to all the others  
and family at  
Harvard.  
Yours & ever  
J. A. Leamon.

My dear Watson,

No any thanks for the last "Contrib", full of good things mostly discovered by Palmer.

Is it not astonishing how successfully he collect! With a strong constitution, a stout frame, a keen eye and free & easy manner he explores Mexican territory as easily as we do the plains of California.

Animals by the score, shrubs and trees - some of them of large size - he collects for the first time, 117, in all, out of a total of 525 species!

Cholame  
San Luis Obispo Co.  
July 25. '87

Has any one ever  
made such hauls as  
Palmer & Pringle in  
these interior Mexican  
states? But poor Pringle  
though a tough fellow  
was overcome, — like your-  
self in Guatemala — and  
nearly succumbed to the  
great enemy who especially  
lies in wait for foreigners  
around such tropical re-  
gions as these.

Dear me! Such explorations  
are not for us poor invalids.  
We must have  
the best of out-fits then  
proceed with greatest care  
and all the time curb  
our zeal by discretion  
and resolution.

No excursion of note  
this season, on ac-

count of pre-occupation,  
pre-empting land! I just  
think of it! We who  
have traveled over mill-  
ions of excellent farming  
land all uncultivated,  
now at this late date, be-  
come afflicted with the  
common fever for land  
and have settled upon a  
rich but this season  
dry  $\frac{1}{4}$  section in the  
N E corner of this  
Co. <sup>hiring the digging of a 7 ft. well.</sup>  
Commenced <sup>in</sup>

Dec. (at the start loo-  
ing <sup>by a prairie fire</sup> our tent, & out-fit  
including provisions for 6  
months <sup>we then</sup> building ourselves  
a cosy little cottage with  
one main room — 10 x 12 —  
and 2 alcoves — 5 x 8, for  
kitchen and bed, requiring  
two months of our kind

P.S.

For the fine specimen of

Polystichum canadense, growing at about

1000 feet high.

I have just received it

from the same source as the

Chrysomela.

Learn more about them.

As you wish them







On the 19<sup>th</sup> of Aug. I  
"bought up" my settlement  
and cultivation, paid \$200  
for the land and have  
a receipt guaranteeing the  
deed, so now we have  
a ~~small~~ <sup>small</sup> ~~small~~ <sup>small</sup> farm & fairly  
good growing & grain land  
in a ~~sharply~~ wooded re-  
gion in a warm belt for  
most of the season, a de-  
lightful <sup>locality</sup> ~~region~~, this may  
sell some day to advantage  
and so aid us in further  
exploration.

The house is comfortably  
furnished and we go down  
next week, to look over  
affairs and try to lease the  
property for a time, while  
other projects engage at-  
tention.

~~Miss~~ Medical College building  
Cakland, Cal.  
Nov. 17, '87.

My dear Dr. Gray,

It is very  
kind of you <sup>to</sup> inquire after  
your wandering and neglect-  
ful friends.

During the past year  
we have been occupied  
a little differently so  
usual - in a way that  
gave little occasion to  
report discoveries ~~and~~  
our silence.

We are glad to read of  
your successful visit  
to Europe and to know  
that despite your ~~many~~  
you are equal to the task  
for slow thinking and  
hard work. We beg

to congratulate you  
on the fact that your  
physical Constitution will  
hold and aid the mental  
- they are to be considered  
as separate - as now  
in good working order until  
your life-mission is over  
and Botanists everywhere  
except in our Cal. Acad.  
are agreed that your mission  
will only close with the  
perfect presentation of our  
St. A. Flora, a work of  
many hard year's labor.

Now for ourselves there is  
little to report. We have  
acquired 60 acres of land  
in a rather dry, warm por-  
tion of Central Cal., the  
W.C. Over & the Co. of  
San Luis Obispo - built a  
little cottage, the son, dug

a well, 10 ft. deep, of good water,  
fenced with wire. 40 acres  
& plowed 12 of them for  
crops this winter, &c. &c,  
of course hiring workmen  
to do all the hard labor,  
we, "Amabilis" & I building  
the Cottage, a most enjoy-  
able proceeding, planning, re-  
vising plans, constructing and  
reconstructing for 60 months  
before our <sup>or family</sup> hands were  
able to finish the residence.

In the mean time I pur-  
chased a pair of little horses  
and a light wagon and rigged  
up a convenient camping  
equipment.

When the house was done  
we took short excursions about  
the nearly unknown country,  
finding some good things  
and so the season passed.

But before we leave here  
for extensive collection we  
will send on a few of our  
choicest plants to show  
you the flora of our interior  
region about our "country  
seat" - a not inappropria-  
te one for our little house  
which is perched upon the  
top of a hillock of so a  
40 feet elevation above  
the fertile grass-covered  
valley.

Your P. C. arrived yesterday while  
Dr. Perry was here and we con-  
ferred together about Plus  
diversiloba. I think it  
is often found climbing by  
"shaggy rootlets", up trees or  
rocks adjacent, to the height of  
several feet. Will investigate  
& report.

We are glad to learn of Mrs. G.  
& write in warm regards to  
both & Watson & Wendell & Helen.  
Love ever, and many.

Our landlord & which  
we turn always as our be-  
haved home - we had sud-  
denly to move our packed-  
up furniture again in  
Aug. last, and this  
time <sup>it</sup> ~~we~~ must be done  
in a hurry <sup>so</sup> and we  
had to take the upper  
room of a Medical  
College - now discontinued  
as such - where we  
found piles of rubbish  
and have made a place  
for our shelving and boxes  
with living room partitioned  
off with cloth, and  
here we call our  
present head-quarters,  
large enough, with good  
air, light, a perfect observa-  
tory for a look-out, but  
of 3 double flights of stairs!  
and no elevator!!!

I expected to remain here  
for the winter and again  
to enjoy the prospect of  
again getting a ~~first~~ <sup>first</sup> glimpse  
into our bundles of furs  
hidden away for nearly  
two years, when sud-  
denly a proposition comes  
from Leconte in San  
Diego to come down there  
and engage with him  
for an extensive exploration  
of the Lower Peninsula and  
Mexico too, if we like, for  
a year or <sup>two</sup> ~~three~~.

Dr. Parry, who has found  
out or retreating and climbed  
up to it, thought well of  
the scheme; <sup>he</sup> describes the  
long, narrow sandy rough  
forbidding looking peninsula  
as fine botanizing ground,  
quite as good as <sup>Continental</sup>

Mexico.

Mr. Leconte promises  
to pay our expenses while  
we explore and collect  
giving him the most of  
our collections to put  
in his museum.

I have never seen the  
gentleman so do not  
know if we can get  
engaged as we desire,

Mrs. L. is quite satisfied  
with the prospect of explor-  
ing far southern fields  
again, but I fear there  
are trials to endure too  
great for our frames,

As soon as we return  
from the ranch we will  
prepare to go down to  
San Diego and look up  
the scheme.



\* machine. Cal. Jan. 31, 1887.

Dear friend Prof. Huxley:

[illegible]



Handwritten text, likely a letter or journal entry, covering the left page. The script is cursive and somewhat faded.

Handwritten text, likely a letter or journal entry, covering the right page. The script is cursive and somewhat faded.

## BOTANIST,

AND SPECIAL AGENT CALIFORNIA BOARD OF FORESTRY.

Oakland, Cal. Mar. 28 1882

Greene Watson,

My dear Sir,

Just from very  
loneliness and sorrow I write to  
get a line from old Harvard again.

Of course we do not now expect  
quick returns from specimens sent  
as formerly when good Dr. Gray was  
at his desk. alas.

The editor of the Pacific Rural sent  
over to ask me for an obituary notice of  
the dear Dr. and I furnished it ac-  
cordingly but in setting up the matter  
the sub-editor put the engraving of a big  
wooly bull in the middle of my article.  
~~and~~ <sup>and</sup> of course I could not send a copy  
of it to dear Mrs Gray.

I write this to assure you that me

are not totally depraved over here, that some of us declared and published the gratitude and sorrow we felt,

I believe the Cal. Acad. published their formal paper - but did not see it,

The new regime is managed it seems, solely by Mrs Curran, who is a keen, designing, intriguing woman - so they say. We go in and out but are not on good terms with them,

Lately Dr. Parry was invited to pack up his materials and dissecting tools & vacate, and just now Prof. Greene has had a quarrel and gone out,

Really this last move surprised us most of all, now they have not a botanist left, - and but few others.

The future of our Acad. is dark, but we hope the old managers of Prof. Davidson and Hearford will not be restored,

A new board must be found, with better abilities and methods than either.

I'll take another sheet and continue this informal chat,

L

As you see by the letter  
head I have been appointed  
to assist in our forest studies.  
Mrs. L., is to paint speci-  
mens of each species with  
water colors. We take  
the Pine for this season.

We are full of enthusi-  
asm over the work but  
Alas! ill health may de-  
stroy all our hopes.

Mrs. L., has been suf-  
fering for several weeks  
with irritation of the  
entire alimentary canal  
and now is quite pro-  
strated, with inflamed  
throat and pains in  
every part of the tract.

We are employing the  
best medical skill attain-  
able, and may recover,

My wife's resolution does not fail, in fact her determination is ~~too~~ strong for it keeps her from taking needed rest and recuperation,

Well, the time is ripe now for studying the flowers of pine but we cannot leave the herbarium,

When a change occurs I will write you, and I hope I may write of recovery & renewed labor.

I enclose a later re-published copy of my article which Mrs Gray may wish to have.

With continued regards from us both,  
Yours. J. H. Beaman.



— Medical College Building. —

San Diego. — Oakland, Cal. May 1. 1885

Dear friend,

Your kind note containing also determination of W. L. G. plants has been forwarded to us here just in time to catch us on the eve of departure per steamer, for Ensenada and beyond to San Quentin bay for a fortnight or so. I hope for a little taste of semi-tropic flora in that region before the weather is too hot.

Chiefly our object is to visit Parry's pine up in the Sierramacca Mts. Perhaps in better condition there than here in upper Cal.

Have just studied for a fortnight Torrey's Pine at Del Mar. A very interesting species. Took photos of half a dozen forms, and Mrs L. painted a characteristic branch. excellently. I prepared with great care specimens of twigs with infant cones, male fls, &c, after splitting the limbs, to make better displays. A great deal of labor but now we have the best of specimens, just dried out after three weeks of constant attention.

We hope the D. L. C. plants proved of some interest to you.

We are glad to notice a few interesting forms, marked. &c. &c. and the confirmation <sup>of some</sup> of Prof. Greene's names.

Too bad that you must suffer the attacks of Mrs.

J. G. LEMMON  
BOTANIST

Medical College Building.

Curran and set keep si-  
lent, which no doubt, is  
best, tho' it will be other-  
wise interpreted you may be  
sure. Of course every  
Pacific Coast botanist ought  
to have the profoundest grate-  
tude towards Cambridge  
for having taken up their  
bundles of "weeds" and put  
them into a little order, so  
that they might be com-  
pared. Who could expect  
absolute freedom from error  
in the handling of such a mass  
of hitherto rubbish?

After your arduous labor  
was performed and the results  
published how easy for Greene,  
Curran, et al, to carp. and  
criticise. Bah!



As for Mrs. L. and myself, we have been  
dropped out of the Cal. Acad.,  
and otherwise grossly abused  
for holding strong personal  
appreciation, and fitting regard  
for the great genius and the  
sainted soul, that while here  
suffered such cruel knife-  
thrusts from scullions, ghouls  
feasting from off his bounty,

Enough of this, We are  
glad to have gone upon the  
record as constant admirers  
of "good Dr. Gray"! I can-  
not restrain the tears at  
the mere mention of his name!

And now, my dear sir, you  
may be assured of the same fe-  
alty to you and to rest at  
Board.

Mrs. L. is in excellent condition,  
for her, Neuralgia all gone in this  
lovely climate. She joins me  
in warmest regards,  
Yours ever, J. L. L.

well-known brave  
who should never have  
honest men under his  
power.

Lyons has received  
about \$7,000 of the ap-  
propriation and has  
done little for it ex-  
cept to fawn around  
and flatter Mr. Hoover.

Please excuse these per-  
sonalities. but we are  
too sore from our hearts  
to keep entirely quiet.

Mrs. G. calls out  
from her bed and  
begs to be kindly re-  
membered to you.

Ever truly

Yours

J. B. Pennington

1015 Clay St.,  
Oakland, Cal.,  
May 10 - 91

Dear Dr. Watson,

Enclosed is a  
slip containing an im-  
portant "Commission" from  
my late Forestry Rep.

It should have  
been forwarded to you  
long ago but prostrat-  
ing sickness and multi-  
farious distractions have  
prevented.

You will see that  
this description was  
anticipated by early  
references in the Rep.  
and so as this is <sup>now</sup> sup-  
plied the whole subject  
of fire treatment is completed.

Mr. Lamm is in  
bed with over-work  
and mental prostration  
owing to the cruel  
neglect of our Board  
of Forestry, ~~the~~ paying us  
only \$600. for our two  
years of hard work.

(See page 13 of Rep.)

Our Forestry is in the  
hands at present, of igno-  
rant bar-room politicians,  
who have squandered \$30,000  
upon their favorites, and left  
us to suffer want.

Keep an eye on Mr. <sup>W. D.</sup>  
Lygon who is going to repre-  
sent forestry perhaps, at the  
Columbian fair. He  
is the pet of Chairman  
Moore of our Board  
and the latter is a